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89708

From: Collins, Cynthia  
Sent: Monday, March 24, 2003 12:56 PM  
T : STIC-Biotech/ChemLib  
Subject: sequence search request SN 09/856725

Please do an OLIGO search, **both** prior art and interference, for SN 09/856725:

1) SEQ ID NO:2

Thank You,

Cynthia Collins  
Art Unit 1638  
CM1, 9A12 (office) or 9E12 (mailbox)  
(703) 605-1210

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Technical Info. Specialist  
CM1 1E05 Tel: 308-4994

PCT 9/25/00

6/14/04

Gentile  
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Dec 498  
their US patent

Searcher: \_\_\_\_\_  
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Online time: \_\_\_\_\_

TYPE OF SEARCH:  
NA Sequences: \_\_\_\_\_  
AA Sequences: \_\_\_\_\_  
Structures: \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Full text: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

VENDOR/COST (where applic.)  
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DIALOG: \_\_\_\_\_  
Questel/Orbit: \_\_\_\_\_  
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# SEARCH REQUEST FORM

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Name: \_\_\_\_\_

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## Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

## STAFF USE ONLY

Date completed: 04-04-03

Searcher: Beverly e 4994

Terminal time: 20

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CPU time: \_\_\_\_\_

Total time: 23

Number of Searches: \_\_\_\_\_

Number of Databases: 1

### Search Site

\_\_\_\_\_ STIC

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### Type of Search

\_\_\_\_\_ N.A. Sequence

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### Vendors

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OM nucleic - nucleic search, using sw model

Run on: April 3, 2003, 11:33:28 ; Search time 2218 Seconds  
(without alignments)  
6960.094 Million cell updates/sec

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Gapex 60.0 , Gapext 60.0

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Post-processing: Listing first 1000 summaries

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C 176	19	3.1	302	36	US-09-969-373-413	Sequence 413, App	C 249	19	3.1	1452	80	US-60-360-207-13014	Sequence 13014, A
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C 180	19	3.1	316	22	US-09-565-306-23963	Sequence 23963, A	C 253	19	3.1	1665	18	US-09-491-404-3351	Sequence 3351, App
C 181	19	3.1	322	33	US-09-865-419A-4313	Sequence 4313, App	C 254	19	3.1	1665	34	US-09-922-279-3251	Sequence 3251, App
C 182	19	3.1	328	22	US-09-572-409-37439	Sequence 37439, A	C 255	19	3.1	1720	25	US-09-644-873-7404	Sequence 7404, App
C 183	19	3.1	357	14	US-09-036-521A-402	Sequence 402, App	C 256	19	3.1	1720	25	US-09-644-873-7404	Sequence 7404, App
C 184	19	3.1	365	80	US-60-360-207-31393	Sequence 31393, A	C 257	19	3.1	1720	25	US-09-644-873-7404	Sequence 7404, App
C 185	19	3.1	367	56	US-60-125-817-2609	Sequence 2609, App	C 258	19	3.1	1820	24	US-09-622-459A-12783	Sequence 12783, A
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C 187	19	3.1	399	17	US-09-362-510A-57474	Sequence 57474, A	C 260	19	3.1	2265	80	US-60-360-039-26283	Sequence 26283, A
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C 318	19	3.1	63391	19	US-09-528-237A-1217	Sequence 1217, Ap	391	18	2.9	258	17	US-09-306-349-13621	Sequence 13621, A
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C 320	19	3.1	63604	31	US-09-803-736-471	Sequence 471, App	393	18	2.9	258	16	US-09-960-481-13621	Sequence 13621, A
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C 323	19	3.1	84432	31	US-09-803-736-104	Sequence 104, App	396	18	2.9	259	20	US-09-654-853-22993	Sequence 22993, A
C 324	19	3.1	89811	31	US-09-803-736-1261	Sequence 1261, Ap	397	18	2.9	259	27	US-09-684-016-102711	Sequence 102711, A
C 325	19	3.1	95432	20	US-09-534-859-577	Sequence 577, App	398	18	2.9	259	27	US-09-684-016-102711	Sequence 102711, A
C 326	19	3.1	95432	31	US-09-803-736-577	Sequence 577, App	399	18	2.9	262	38	US-10-021-323-2387	Sequence 2387, Ap
C 327	19	3.1	104862	19	US-09-528-237A-1645	Sequence 1645, Ap	400	18	2.9	262	69	US-60-255-619-2387	Sequence 2387, Ap
C 328	19	3.1	119226	35	US-09-948-947-159	Sequence 159, App	401	18	2.9	262	27	US-09-692-257A-5320	Sequence 5320, A
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C 330	19	3.1	120651	35	US-09-702-134-6086	Sequence 6086, Ap	403	18	2.9	275	15	US-09-148-482-1565	Sequence 1565, Ap
C 331	19	3.1	120651	31	US-09-815-264-67358	Sequence 67358, A	404	18	2.9	275	21	US-09-540-213-44295	Sequence 44295, A
C 332	19	3.1	132990	31	US-09-803-736-1260	Sequence 1260, Ap	405	18	2.9	275	52	US-60-084-113-235	Sequence 113, Appl
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C 342	19	3.1	249487	19	US-09-528-237A-1276	Sequence 1276, Ap	415	18	2.9	282	21	US-09-540-229-150414	Sequence 150414, A
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C 344	18	2.9	9	9	US-08-530-112A-7135	Sequence 7135, Ap	417	18	2.9	284	36	US-09-969-373-617	Sequence 617, App
C 345	18	2.9	103	12	US-08-803-610C-9634	Sequence 9634, Ap	418	18	2.9	284	36	US-09-969-373-617	Sequence 617, App
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C 359	18	2.9	178	40	US-10-131-827-8699	Sequence 8699, Ap	432	18	2.9	298	17	US-09-362-510-53551	Sequence 53551, A
C 360	18	2.9	178	40	US-10-131-831-8699	Sequence 8699, Ap	433	18	2.9	298	17	US-09-362-510A-53551	Sequence 53551, A
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C 362	18	2.9	204	18	US-09-440-687-14466	Sequence 14466, A	435	18	2.9	298	22	US-09-577-409-1360	Sequence 1360, Ap
C 363	18	2.9	204	58	US-60-144-084-42707	Sequence 42707, A	436	18	2.9	298	34	US-09-904-013-53551	Sequence 53551, A
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C 367	18	2.9	243	17	US-09-304-517A-139322	Sequence 139322, A	440	18	2.9	311	19	US-09-521-640-13519	Sequence 13519, A
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C 379	18	2.9	249	21	US-09-540-499-24266	Sequence 24266, A	452	18	2.9	341	17	US-09-304-517A-270397	Sequence 270397, A
C 380	18	2.9	249	21	US-09-540-499-24266	Sequence 24266, A	453	18	2.9	341	17	US-09-371-146A-269236	Sequence 269236, A
C 381	18	2.9	249	54	US-60-108-396-230	Sequence 230, App	454	18	2.9	341	22	US-09-565-240-17072	Sequence 17072, A
C 382	18	2.9	251	13	US-08-962-919-3684	Sequence 3684, Ap	455	18	2.9	343	31	US-09-985-678-270397	Sequence 270397, A
C 383	18	2.9	251	20	US-09-535-897-43737	Sequence 43737, Ap	456	18	2.9	343	37	US-09-985-678-270397	Sequence 270397, A
C 384	18	2.9	251	47	US-60-036-400-899	Sequence 899, App	457	18	2.9	345	19	US-09-521-640-154577	Sequence 154577, A
C 385	18	2.9	252	23	US-09-605-700-18685	Sequence 18685, A	458	18	2.9	345	16	US-09-289-768-9754	Sequence 9754, Ap
C 386	18	2.9	253	18	US-09-436-762A-11326	Sequence 11326, A	459	18	2.9	345	25	US-09-654-617-432659	Sequence 432659, A

C 460	18	2.9	345	27	US-09-684-016-432659	Sequence 432659, A	C 533	18	2.9	406	24	US-09-637-086A-23839	Sequence 23839, A
461	18	2.9	345	35	US-09-939-397-9754	Sequence 9754, Ap	C 534	18	2.9	406	24	US-09-637-086D-23839	Sequence 23839, A
462	18	2.9	346	63	US-60-197-872-63562	Sequence 63562, A	C 535	18	2.9	406	25	US-09-654-617-245040	Sequence 245040, A
C 463	18	2.9	348	5	US-08-104-507A-5244	Sequence 5244, Ap	C 536	18	2.9	406	27	US-09-684-016-245040	Sequence 245040, A
C 464	18	2.9	348	5	US-08-104-507C-5244	Sequence 5244, Ap	C 537	18	2.9	410	25	US-09-654-617-134883	Sequence 134883, A
465	18	2.9	351	80	US-60-360-207-26048	Sequence 26048, A	C 538	18	2.9	410	27	US-09-684-016-134883	Sequence 134883, A
C 466	18	2.9	351	16	US-09-270-849B-175454	Sequence 175454, A	539	18	2.9	411	16	US-09-293-972-19392	Sequence 19392, A
467	18	2.9	361	14	US-09-076-897-6696	Sequence 6696, Ap	540	18	2.9	411	16	US-09-293-972-19392	Sequence 19392, A
468	18	2.9	361	14	US-09-076-897A-6696	Sequence 6696, Ap	541	18	2.9	413	17	US-09-359-067-4233	Sequence 4233, A
469	18	2.9	361	14	US-09-076-897B-6696	Sequence 6696, Ap	C 542	18	2.9	413	63	US-60-197-872-51401	Sequence 51401, A
470	18	2.9	361	14	US-09-076-897C-6696	Sequence 6696, Ap	C 543	18	2.9	417	18	US-09-480-992-12649	Sequence 12649, A
471	18	2.9	361	24	US-09-625-102-1309	Sequence 1309, Ap	C 544	18	2.9	417	36	US-09-960-352-12649	Sequence 12649, A
472	18	2.9	362	28	US-09-704-424-6728	Sequence 6728, Ap	C 545	18	2.9	423	17	US-09-317-311C-941	Sequence 941, App
C 473	18	2.9	364	19	US-09-521-640-6827	Sequence 6827, Ap	546	18	2.9	423	39	US-10-077-478-941	Sequence 941, App
474	18	2.9	368	19	US-09-521-640-85431	Sequence 85431, A	C 547	18	2.9	424	19	US-09-521-640-145311	Sequence 145311, A
475	18	2.9	368	25	US-09-654-617-166465	Sequence 166465, A	C 548	18	2.9	424	24	US-09-637-086A-22499	Sequence 22499, A
476	18	2.9	368	27	US-09-684-016-166465	Sequence 166465, A	C 549	18	2.9	424	24	US-09-637-086D-22499	Sequence 22499, A
477	18	2.9	370	17	US-09-362-510-16131	Sequence 16131, A	C 550	18	2.9	424	25	US-09-654-617-244679	Sequence 244679, A
478	18	2.9	370	17	US-09-362-510A-16131	Sequence 16131, A	C 551	18	2.9	424	25	US-09-654-617-244679	Sequence 244679, A
479	18	2.9	370	34	US-09-904-013-16131	Sequence 16131, A	C 552	18	2.9	424	27	US-09-684-016-244679	Sequence 244679, A
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C 481	18	2.9	372	23	US-09-606-680-138	Sequence 138, App	C 554	18	2.9	425	32	US-09-849-526A-3236	Sequence 3236, Ap
C 482	18	2.9	375	17	US-09-304-517A-263588	Sequence 263588, A	C 555	18	2.9	425	58	US-60-202-214-3236	Sequence 3236, Ap
C 483	18	2.9	375	17	US-09-371-146A-262548	Sequence 262548, A	C 556	18	2.9	428	64	US-60-253-652-6049	Sequence 6049, Ap
C 484	18	2.9	375	18	US-09-440-680-16718	Sequence 16718, A	C 557	18	2.9	430	17	US-09-304-517A-270598	Sequence 270598, A
C 485	18	2.9	375	37	US-09-985-678-263588	Sequence 263588, A	C 558	18	2.9	430	17	US-09-371-146A-269436	Sequence 269436, A
C 486	18	2.9	375	58	US-60-144-084-21101	Sequence 21101, A	C 559	18	2.9	430	22	US-09-565-240-16725	Sequence 16725, A
C 487	18	2.9	376	17	US-09-362-510-57107	Sequence 57107, A	C 560	18	2.9	430	37	US-09-985-678-270598	Sequence 270598, A
C 488	18	2.9	376	17	US-09-362-510A-57107	Sequence 57107, A	C 561	18	2.9	435	22	US-09-572-409-33556	Sequence 33556, A
489	18	2.9	376	24	US-09-637-086A-50752	Sequence 50752, A	562	18	2.9	436	16	US-09-4271-450-16271	Sequence 16271, A
490	18	2.9	376	24	US-09-637-086D-50752	Sequence 50752, A	563	18	2.9	436	34	US-09-925-552-16271	Sequence 16271, A
491	18	2.9	376	25	US-09-654-617-253632	Sequence 253632, A	564	18	2.9	436	38	US-10-032-354-16271	Sequence 16271, A
C 492	18	2.9	376	27	US-09-684-016-253632	Sequence 253632, A	C 565	18	2.9	437	12	US-08-803-609-1000	Sequence 1000, Ap
C 493	18	2.9	376	34	US-09-904-013-57107	Sequence 57107, A	C 566	18	2.9	437	19	US-09-521-640-66510	Sequence 66510, A
494	18	2.9	378	18	US-09-436-762A-9277	Sequence 9277, Ap	C 567	18	2.9	437	34	US-09-912-292-5573	Sequence 5573, Ap
495	18	2.9	379	26	US-09-666-355A-4460	Sequence 4460, Ap	C 568	18	2.9	438	18	US-09-421-106-19926	Sequence 19926, A
496	18	2.9	386	19	PCT-US01-01334-1705	Sequence 1705, Ap	C 569	18	2.9	438	19	US-09-521-640-288402	Sequence 288402, A
C 497	18	2.9	386	19	US-09-521-640-246370	Sequence 246370, A	C 570	18	2.9	438	22	US-09-552-087-16868	Sequence 16868, A
498	18	2.9	386	30	US-09-764-874-1705	Sequence 1705, Ap	C 571	18	2.9	438	22	US-09-552-087B-16868	Sequence 16868, A
499	18	2.9	386	39	US-10-092-400-1705	Sequence 1705, Ap	C 572	18	2.9	438	23	US-09-605-700-17978	Sequence 17978, A
500	18	2.9	387	33	US-09-865-439A-7591	Sequence 7591, Ap	C 573	18	2.9	439	17	US-09-399-720-18932	Sequence 18932, A
501	18	2.9	389	19	US-09-521-640-141676	Sequence 141676, A	574	18	2.9	439	23	US-09-605-700-17995	Sequence 17995, A
502	18	2.9	391	25	US-09-654-617-166518	Sequence 166518, A	C 575	18	2.9	440	34	US-09-921-378-18932	Sequence 18932, A
503	18	2.9	391	27	US-09-684-016-166518	Sequence 166518, A	C 576	18	2.9	440	19	US-09-521-640-87799	Sequence 87799, A
C 504	18	2.9	392	17	US-09-394-745-11055	Sequence 11055, A	C 577	18	2.9	442	20	US-09-534-854-4909	Sequence 4909, Ap
C 505	18	2.9	392	19	US-09-528-409-104897	Sequence 104897, A	C 578	18	2.9	445	16	US-09-293-972-11081	Sequence 11081, A
C 506	18	2.9	392	22	US-09-565-306-29540	Sequence 29540, A	C 579	18	2.9	445	18	US-09-471-277-5107	Sequence 5107, Ap
C 507	18	2.9	392	35	US-09-933-524A-104897	Sequence 104897, A	C 580	18	2.9	445	34	US-09-904-939-31463	Sequence 31463, A
C 508	18	2.9	393	35	US-09-359-067-26621	Sequence 26621, A	581	18	2.9	448	19	US-09-528-409-31463	Sequence 31463, A
C 509	18	2.9	393	17	US-09-362-510-20588	Sequence 20588, A	582	18	2.9	448	35	US-09-933-554A-31463	Sequence 31463, A
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511	18	2.9	396	17	US-09-904-013-20588	Sequence 20588, A	C 584	18	2.9	453	17	US-09-362-510A-1957	Sequence 1957, Ap
512	18	2.9	396	34	US-09-904-013-20588	Sequence 20588, A	C 585	18	2.9	453	17	US-09-362-510A-1957	Sequence 1957, Ap
513	18	2.9	397	16	US-09-293-972-31035	Sequence 31035, A	C 586	18	2.9	453	34	US-09-904-013-1957	Sequence 1957, Ap
514	18	2.9	397	34	US-09-904-939-31035	Sequence 31035, A	C 587	18	2.9	453	80	US-60-360-207-25734	Sequence 25734, A
515	18	2.9	397	80	US-60-360-207-32748	Sequence 32748, A	C 588	18	2.9	460	39	US-10-098-754-10224	Sequence 10224, A
C 516	18	2.9	398	18	US-09-521-640-110511	Sequence 110511, A	C 589	18	2.9	468	18	US-09-421-106-773	Sequence 773, App
517	18	2.9	400	1	PCT-US01-01334-10459	Sequence 10459, A	C 590	18	2.9	468	19	US-09-521-640-152680	Sequence 152680, A
518	18	2.9	400	1	PCT-US01-01334-10460	Sequence 10460, A	C 591	18	2.9	473	24	US-09-628-857-618	Sequence 618, App
519	18	2.9	400	1	PCT-US01-01334-10461	Sequence 10461, A	C 592	18	2.9	473	34	US-09-912-292-39157	Sequence 39157, A
C 520	18	2.9	400	17	US-09-394-745-45224	Sequence 45224, A	593	18	2.9	478	32	US-09-834-366-28012	Sequence 28012, A
C 521	18	2.9	400	22	US-09-565-306-66833	Sequence 66833, A	594	18	2.9	478	63	US-60-197-873-28012	Sequence 28012, A
522	18	2.9	400	30	US-09-764-874-10459	Sequence 10459, A	C 595	18	2.9	479	19	US-09-521-640-220982	Sequence 220982, A
523	18	2.9	400	30	US-09-764-874-10460	Sequence 10460, A	C 596	18	2.9	479	24	US-09-621-976-8278	Sequence 8278, Ap
524	18	2.9	400	30	US-09-764-874-10461	Sequence 10461, A	C 597	18	2.9	479	58	US-60-140-769-27001	Sequence 27001, A
525	18	2.9	400	39	US-10-092-400-10459	Sequence 10459, A	598	18	2.9	479	58	US-60-140-769-27001	Sequence 27001, A
526	18	2.9	400	39	US-10-092-400-10460	Sequence 10460, A	C 599	18	2.9	480	22	US-09-565-309A-21673	Sequence 21673, A
527	18	2.9	400	39	US-10-092-400-10461	Sequence 10461, A	C 600	18	2.9	482	19	US-09-521-640-270166	Sequence 270166, A
528	18	2.9	401	14	US-09-076-897-6678	Sequence 6678, Ap	601	18	2.9	484	19	US-09-521-640-223565	Sequence 223565, A
529	18	2.9	401	14	US-09-076-897A-6678	Sequence 6678, Ap	602	18	2.9	484	19	US-09-528-409-29986	Sequence 29986, A
530	18	2.9	401	14	US-09-076-897B-6678	Sequence 6678, Ap	603	18	2.9	484	35	US-09-933-554A-29986	Sequence 29986, A
531	18	2.9	401	14	US-09-076-897C-6678	Sequence 6678, Ap	604	18	2.9	484	35	US-09-933-554A-29986	Sequence 29986, A
532	18	2.9	402	22	US-09-572-409-47771	Sequence 47771, A	605	18	2.9	489	30	US-09-770-961-709	Sequence 709, App

606	18	2.9	490	26	US-09-669-817A-33185	Sequence 33185, A	C 679	18	2.9	557	25	US-09-654-617-117624	Sequence 117624, A
C 607	18	2.9	490	30	US-09-932-076-1590	Sequence 1590, Ap	C 680	18	2.9	567	25	US-09-654-617-197203	Sequence 197203, A
C 608	18	2.9	492	80	US-60-360-207-26874	Sequence 26874, A	C 681	18	2.9	567	27	US-09-684-016-117624	Sequence 117624, A
C 609	18	2.9	493	33	US-09-874-708A-16618	Sequence 16618, A	C 682	18	2.9	567	27	US-09-684-016-197203	Sequence 197203, A
C 610	18	2.9	493	65	US-60-211-750-16475	Sequence 16475, A	C 683	18	2.9	571	38	US-10-029-386-1442	Sequence 1242, Ap
C 611	18	2.9	494	33	US-09-850-147-5775	Sequence 5775, Ap	C 684	18	2.9	572	21	US-09-654-228-110930	Sequence 110930, A
C 612	18	2.9	494	64	US-60-202-213-5592	Sequence 5592, Ap	C 685	18	2.9	575	24	US-09-634-306B-223993	Sequence 223993, A
C 613	18	2.9	495	16	US-09-270-849B-137954	Sequence 137954, Ap	C 686	18	2.9	575	38	US-10-027-632-223993	Sequence 223993, A
C 614	18	2.9	497	25	US-09-652-355-770	Sequence 770, Ap	C 687	18	2.9	575	66	US-60-226-326-2136	Sequence 2136, Ap
C 615	18	2.9	498	24	US-09-634-086A-266519	Sequence 266519, A	C 688	18	2.9	576	24	US-09-634-306B-228139	Sequence 228139, A
C 616	18	2.9	498	24	US-09-637-086A-266519	Sequence 266519, A	C 689	18	2.9	576	24	US-09-634-306B-228141	Sequence 228141, A
C 617	18	2.9	498	24	US-09-637-086D-26283	Sequence 26283, A	C 690	18	2.9	576	24	US-09-634-306B-228142	Sequence 228142, A
C 618	18	2.9	498	38	US-10-027-632-266519	Sequence 266519, A	C 691	18	2.9	576	24	US-10-027-632-228139	Sequence 228139, A
C 619	18	2.9	502	19	US-09-528-409-95204	Sequence 95204, A	C 692	18	2.9	576	38	US-10-027-632-228141	Sequence 228141, A
C 620	18	2.9	502	24	US-09-634-306B-60205	Sequence 60205, A	C 693	18	2.9	576	38	US-10-027-632-228141	Sequence 228141, A
C 621	18	2.9	502	24	US-09-634-306B-298575	Sequence 298575, A	C 694	18	2.9	576	38	US-10-027-632-228141	Sequence 228141, A
C 622	18	2.9	502	35	US-09-933-524-95204	Sequence 95204, A	C 695	18	2.9	576	38	US-10-027-632-228142	Sequence 228142, A
C 623	18	2.9	502	35	US-09-933-524A-95204	Sequence 95204, A	C 696	18	2.9	576	38	US-10-027-632-228142	Sequence 228142, A
C 624	18	2.9	502	38	US-10-027-632-60205	Sequence 60205, A	C 697	18	2.9	588	33	US-60-207-458-33643	Sequence 33643, A
C 625	18	2.9	502	38	US-10-027-632-298575	Sequence 298575, A	C 698	18	2.9	590	22	US-09-865-419A-53643	Sequence 53643, A
C 626	18	2.9	503	43	US-10-260-338-5061	Sequence 5061, Ap	C 699	18	2.9	593	19	US-09-565-309A-1853	Sequence 1853, A
C 627	18	2.9	504	24	US-09-634-306B-43037	Sequence 43037, A	C 700	18	2.9	593	31	US-09-505-532-39866	Sequence 39866, A
C 628	18	2.9	504	38	US-10-027-632-43037	Sequence 43037, A	C 701	18	2.9	600	33	US-09-819-091A-39866	Sequence 39866, A
C 629	18	2.9	507	24	US-09-634-306B-98352	Sequence 98352, A	C 702	18	2.9	601	35	US-09-865-419A-53563	Sequence 53563, A
C 630	18	2.9	507	33	US-09-874-708A-80541	Sequence 80541, A	C 703	18	2.9	601	35	US-09-521-640-27995	Sequence 27995, A
C 631	18	2.9	507	38	US-10-027-632-98352	Sequence 98352, A	C 704	18	2.9	603	24	US-09-637-890-7082	Sequence 7082, Ap
C 632	18	2.9	507	65	US-60-211-750-79408	Sequence 79408, A	C 705	18	2.9	603	25	US-09-652-814-706	Sequence 706, Ap
C 633	18	2.9	508	24	US-09-634-306B-266520	Sequence 266520, A	C 706	18	2.9	609	17	US-09-328-352-4091	Sequence 4091, Ap
C 634	18	2.9	508	24	US-09-634-306B-266520	Sequence 266520, A	C 707	18	2.9	610	19	US-09-521-640-23847	Sequence 23847, A
C 635	18	2.9	508	38	US-10-027-632-266521	Sequence 266521, A	C 708	18	2.9	610	22	US-09-552-087-9496	Sequence 9496, Ap
C 636	18	2.9	508	38	US-10-027-632-266521	Sequence 266521, A	C 709	18	2.9	610	22	US-09-552-087B-9496	Sequence 9496, Ap
C 637	18	2.9	509	71	US-60-278-232-3150	Sequence 3150, Ap	C 710	18	2.9	610	33	US-09-865-439A-98188	Sequence 98188, A
C 638	18	2.9	513	22	US-09-565-309A-18534	Sequence 18534, A	C 711	18	2.9	610	64	US-60-207-458-142109	Sequence 142109, A
C 639	18	2.9	514	16	US-09-240-371-6397	Sequence 6397, Ap	C 712	18	2.9	613	33	US-09-865-439A-59621	Sequence 59621, A
C 640	18	2.9	514	16	US-09-293-972-5816	Sequence 5816, Ap	C 713	18	2.9	613	64	US-60-207-458-103781	Sequence 103781, A
C 641	18	2.9	514	24	US-09-634-306B-324397	Sequence 324397, A	C 714	18	2.9	621	23	US-09-614-150-27389	Sequence 27389, A
C 642	18	2.9	514	24	US-09-634-306B-324398	Sequence 324398, A	C 715	18	2.9	621	61	US-60-173-464-4084	Sequence 4084, Ap
C 643	18	2.9	514	34	US-09-904-939-5816	Sequence 5816, Ap	C 716	18	2.9	621	61	US-60-173-464-14599	Sequence 14599, Ap
C 644	18	2.9	514	38	US-09-919-724-6397	Sequence 6397, Ap	C 717	18	2.9	621	63	US-60-191-661-22221	Sequence 22221, A
C 645	18	2.9	514	38	US-10-027-632-324397	Sequence 324397, A	C 718	18	2.9	624	31	US-09-634-306B-231647	Sequence 231647, A
C 646	18	2.9	514	38	US-10-027-632-324398	Sequence 324398, A	C 719	18	2.9	624	38	US-10-027-632-231647	Sequence 231647, A
C 647	18	2.9	517	28	US-09-705-926-3834	Sequence 3834, Ap	C 720	18	2.9	624	60	US-60-167-217-2573	Sequence 2573, Ap
C 648	18	2.9	520	19	US-09-505-532-36918	Sequence 36918, A	C 721	18	2.9	624	60	US-60-167-217-17887	Sequence 17887, A
C 649	18	2.9	520	31	US-09-819-091A-36918	Sequence 36918, A	C 722	18	2.9	625	33	US-09-865-439A-37003	Sequence 37003, A
C 650	18	2.9	529	25	US-09-649-165A-7672	Sequence 7672, Ap	C 723	18	2.9	625	64	US-60-207-458-81300	Sequence 81300, A
C 651	18	2.9	530	22	US-09-565-240-50403	Sequence 50403, A	C 724	18	2.9	625	64	US-09-565-309A-49747	Sequence 49747, A
C 652	18	2.9	535	33	US-09-865-439A-98105	Sequence 98105, A	C 725	18	2.9	627	22	US-09-513-996A-27947	Sequence 27947, A
C 653	18	2.9	535	64	US-60-207-458-142026	Sequence 142026, A	C 726	18	2.9	627	22	US-09-565-309A-56801	Sequence 56801, A
C 654	18	2.9	536	1	PCT-US00-09437-350	Sequence 350, App	C 727	18	2.9	627	22	US-09-513-996A-27947	Sequence 27947, A
C 655	18	2.9	536	21	US-09-543-668-350	Sequence 350, App	C 728	18	2.9	629	24	US-09-634-306B-34658	Sequence 34658, A
C 656	18	2.9	536	37	US-09-991-936-350	Sequence 350, App	C 729	18	2.9	629	24	US-09-634-306B-34658	Sequence 34658, A
C 657	18	2.9	539	18	US-09-471-277-5408	Sequence 5408, Ap	C 730	18	2.9	629	38	US-10-027-632-34658	Sequence 34658, A
C 658	18	2.9	541	24	US-09-634-306B-4950	Sequence 4950, Ap	C 731	18	2.9	631	19	US-09-505-532-4664	Sequence 4664, Ap
C 659	18	2.9	541	24	US-09-634-306B-4951	Sequence 4951, Ap	C 732	18	2.9	631	31	US-09-819-091A-4664	Sequence 4664, Ap
C 660	18	2.9	541	38	US-10-027-632-4950	Sequence 4950, Ap	C 733	18	2.9	638	22	US-09-565-309A-54565	Sequence 54565, A
C 661	18	2.9	541	38	US-10-027-632-4951	Sequence 4951, Ap	C 734	18	2.9	639	38	US-09-634-306B-205479	Sequence 205479, A
C 662	18	2.9	543	32	US-09-849-529A-18207	Sequence 18207, A	C 735	18	2.9	645	69	US-60-253-651-12064	Sequence 12064, A
C 663	18	2.9	543	63	US-60-196-868-18191	Sequence 18191, A	C 736	18	2.9	645	69	US-60-253-651-12064	Sequence 12064, A
C 664	18	2.9	545	30	US-09-770-152-606	Sequence 606, App	C 737	18	2.9	649	38	US-09-634-306B-296169	Sequence 296169, A
C 665	18	2.9	546	80	US-60-360-207-28944	Sequence 28944, A	C 738	18	2.9	649	38	US-10-027-632-236169	Sequence 236169, A
C 666	18	2.9	548	24	US-09-629-469A-1869	Sequence 5899, Ap	C 739	18	2.9	651	1	PCT-US01-08656-2325	Sequence 2325, Ap
C 667	18	2.9	553	24	US-09-634-306B-180614	Sequence 180614, A	C 740	18	2.9	655	80	US-60-360-207-8284	Sequence 8284, Ap
C 668	18	2.9	553	38	US-10-027-632-180614	Sequence 180614, A	C 741	18	2.9	655	33	US-09-861-478-224	Sequence 224, Ap
C 669	18	2.9	559	24	US-09-634-306B-246682	Sequence 246682, A	C 742	18	2.9	659	33	US-09-873-402A-89289	Sequence 89289, A
C 670	18	2.9	559	38	US-10-027-632-246682	Sequence 246682, A	C 743	18	2.9	659	33	US-09-873-402A-89289	Sequence 89289, A
C 671	18	2.9	559	38	US-10-027-632-246683	Sequence 246683, A	C 744	18	2.9	659	83	US-60-209-830-61028	Sequence 61028, A
C 672	18	2.9	559	38	US-09-505-532-9486	Sequence 9486, Ap	C 745	18	2.9	660	25	US-09-654-617-177759	Sequence 177759, A
C 673	18	2.9	561	19	US-09-819-091A-9486	Sequence 9486, Ap	C 746	18	2.9	660	27	US-09-684-016-177759	Sequence 177759, A
C 674	18	2.9	561	31	US-09-865-439A-77374	Sequence 77374, A	C 747	18	2.9	665	33	US-09-865-439A-34108	Sequence 34108, A
C 675	18	2.9	562	33	US-60-207-458-121516	Sequence 121516, A	C 748	18	2.9	665	64	US-60-207-458-78405	Sequence 78405, A
C 676	18	2.9	562	64	US-09-654-617-15730	Sequence 15730, A	C 749	18	2.9	671	33	US-09-865-439A-34027	Sequence 34027, A
C 677	18	2.9	566	25	US-09-654-617-15730	Sequence 15730, A	C 750	18	2.9	671	64	US-60-207-458-78324	Sequence 78324, A
C 678	18	2.9	566	27	US-09-684-016-15730	Sequence 15730, A	C 751	18	2.9	672	33	US-09-865-439A-35530	Sequence 35530, A

C 752	18	2.9	672	64	US-60-207-458-80827	Sequence 80827, A	825	18	2.9	1488	53	US-60-096-409-5504	Sequence 5904, Ap
C 753	18	2.9	681	19	US-09-513-966A-25973	Sequence 25973, A	826	18	2.9	1500	36	US-09-974-300-172	Sequence 172, Ap
C 754	18	2.9	683	24	US-09-628-987B-1478	Sequence 1478, Ap	C 827	18	2.9	1501	31	US-09-815-264-1873	Sequence 1873, Ap
C 755	18	2.9	691	25	US-09-654-617-120554	Sequence 120554, A	C 828	18	2.9	1501	31	US-09-815-264-17231	Sequence 17231, Ap
C 756	18	2.9	691	27	US-09-684-016-120554	Sequence 120554, A	C 829	18	2.9	1501	31	US-09-815-264-19040	Sequence 19040, A
C 757	18	2.9	723	25	US-09-654-617-280433	Sequence 280433, A	C 830	18	2.9	1516	28	US-09-703-708-1115	Sequence 1115, Ap
C 758	18	2.9	723	27	US-09-684-016-280433	Sequence 280433, A	C 831	18	2.9	1516	28	US-09-703-708-1115	Sequence 1115, Ap
C 759	18	2.9	761	19	US-09-513-966A-42242	Sequence 42242, A	C 832	18	2.9	1516	28	US-09-703-708-1115	Sequence 1115, Ap
C 760	18	2.9	761	22	US-09-565-309A-52356	Sequence 52356, A	C 833	18	2.9	1662	42	US-10-219-999-30127	Sequence 30127, A
C 761	18	2.9	761	22	US-09-565-309A-56801	Sequence 56801, A	C 834	18	2.9	1673	33	US-09-865-439A-11093	Sequence 11093, A
C 762	18	2.9	762	22	US-09-595-329A-1267	Sequence 1267, Ap	C 835	18	2.9	1682	80	US-60-360-207-16032	Sequence 16032, A
C 763	18	2.9	766	24	US-09-634-306B-128814	Sequence 128814, A	C 836	18	2.9	1692	18	US-09-417-251-5	Sequence 5, Appl1
C 764	18	2.9	766	24	US-09-634-306B-167694	Sequence 167694, A	C 837	18	2.9	1712	42	US-10-219-999-23597	Sequence 23597, A
C 765	18	2.9	766	38	US-10-027-632-128814	Sequence 128814, A	C 838	18	2.9	1723	25	US-09-654-617-263760	Sequence 263760, A
C 766	18	2.9	766	38	US-10-027-632-167694	Sequence 167694, A	C 839	18	2.9	1723	27	US-09-684-016-263760	Sequence 263760, A
C 767	18	2.9	813	25	US-09-654-617-260760	Sequence 260760, A	C 840	18	2.9	1832	42	US-10-219-999-14881	Sequence 14881, A
C 768	18	2.9	813	27	US-09-684-016-260760	Sequence 260760, A	C 841	18	2.9	1836	42	US-10-219-999-28391	Sequence 28391, A
C 769	18	2.9	822	24	US-09-634-306B-29416	Sequence 29416, A	C 842	18	2.9	1843	33	US-09-873-402A-26227	Sequence 26227, A
C 770	18	2.9	822	38	US-10-027-632-29416	Sequence 29416, A	C 843	18	2.9	1850	33	US-09-873-402A-26227	Sequence 26227, A
C 771	18	2.9	850	24	US-09-634-306B-163838	Sequence 163838, A	C 844	18	2.9	1861	30	US-09-762-154-19	Sequence 19, Appl1
C 772	18	2.9	850	16	US-10-027-632-163838	Sequence 163838, A	C 845	18	2.9	1884	28	US-09-708-4427-24009	Sequence 24009, A
C 773	18	2.9	855	18	US-09-297-648-2933	Sequence 2933, Ap	C 846	18	2.9	1923	35	US-09-938-842A-3051	Sequence 3051, Ap
C 774	18	2.9	868	1	PCT-US01-02723-906	Sequence 906, Ap	C 847	18	2.9	1928	80	US-60-360-207-28970	Sequence 28970, A
C 775	18	2.9	868	18	US-09-406-292A-247	Sequence 247, Ap	C 848	18	2.9	1938	25	US-09-654-617-451758	Sequence 451758, A
C 776	18	2.9	868	28	US-09-707-351-906	Sequence 906, Ap	C 849	18	2.9	1983	25	US-09-684-016-451758	Sequence 451758, A
C 777	18	2.9	870	64	US-60-207-458-30003	Sequence 30003, A	C 850	18	2.9	1995	26	US-09-683-779-840	Sequence 840, Ap
C 778	18	2.9	895	80	US-60-360-207-33911	Sequence 33911, A	C 851	18	2.9	2000	33	US-09-887-272A-2319	Sequence 2319, Ap
C 779	18	2.9	921	80	US-60-360-207-24540	Sequence 24540, A	C 852	18	2.9	2000	35	US-09-938-842A-4103	Sequence 4103, Ap
C 780	18	2.9	932	30	US-09-785-276A-20758	Sequence 20758, A	C 853	18	2.9	2000	43	US-10-260-228-2325	Sequence 2325, Ap
C 781	18	2.9	932	30	US-09-785-276A-26600	Sequence 26600, A	C 854	18	2.9	2000	76	US-60-325-448-2325	Sequence 2325, Ap
C 782	18	2.9	954	24	US-09-634-306B-120048	Sequence 120048, A	C 855	18	2.9	2021	1	PCT-US01-01335-835	Sequence 835, Ap
C 783	18	2.9	954	38	US-10-027-632-120048	Sequence 120048, A	C 856	18	2.9	2077	24	US-09-629-462A-10646	Sequence 10646, A
C 784	18	2.9	954	80	US-60-360-039-25773	Sequence 25773, A	C 857	18	2.9	2077	24	US-09-629-462A-10646	Sequence 10646, A
C 785	18	2.9	955	24	US-09-634-306B-84072	Sequence 84072, A	C 858	18	2.9	2138	23	US-10-074-024-835	Sequence 835, Ap
C 786	18	2.9	955	38	US-10-027-632-84072	Sequence 84072, A	C 859	18	2.9	2138	63	US-60-191-637-28237	Sequence 28237, A
C 787	18	2.9	961	39	US-10-098-754-11715	Sequence 11715, A	C 860	18	2.9	2291	1	PCT-US01-08631-6357	Sequence 6357, Ap
C 788	18	2.9	968	26	US-09-666-355A-774	Sequence 774, Ap	C 861	18	2.9	2331	1	PCT-US02-11260-17	Sequence 17, Appl1
C 789	18	2.9	1001	19	US-09-502-330-458	Sequence 458, App	C 862	18	2.9	2538	40	US-10-104-706-17	Sequence 17, Appl1
C 790	18	2.9	1001	41	US-10-170-097-458	Sequence 458, App	C 863	18	2.9	2538	40	US-10-104-706A-17	Sequence 17, Appl1
C 791	18	2.9	1011	40	US-10-146-772-171	Sequence 171, App	C 864	18	2.9	2538	75	US-60-311-461-17	Sequence 17, Appl1
C 792	18	2.9	1011	42	US-10-241-742-171	Sequence 171, App	C 865	18	2.9	2614	63	US-60-191-637-27353	Sequence 27353, A
C 793	18	2.9	1011	82	US-60-380-737-171	Sequence 171, App	C 866	18	2.9	2614	63	US-60-191-681-21962	Sequence 21962, A
C 794	18	2.9	1040	28	US-09-705-926-3103	Sequence 3103, Ap	C 867	18	2.9	2615	23	US-09-614-150-27148	Sequence 27148, A
C 795	18	2.9	1071	19	US-09-505-532-30838	Sequence 30838, A	C 868	18	2.9	2643	1	PCT-US02-03987-14635	Sequence 14635, A
C 796	18	2.9	1071	31	US-09-819-091A-30838	Sequence 30838, A	C 869	18	2.9	2643	38	US-10-032-585-16525	Sequence 16525, Ap
C 797	18	2.9	1084	29	US-09-726-175-3345	Sequence 3345, Ap	C 870	18	2.9	2643	39	US-10-072-861-14635	Sequence 14635, A
C 798	18	2.9	1096	1	PCT-US01-03800A-573	Sequence 573, App	C 871	18	2.9	2643	69	US-60-259-128-4132	Sequence 4132, Ap
C 799	18	2.9	1096	18	US-09-496-914A-4333	Sequence 4333, Ap	C 872	18	2.9	2643	75	US-60-314-050-6525	Sequence 6525, Ap
C 800	18	2.9	1105	22	US-09-560-875A-4333	Sequence 4333, Ap	C 873	18	2.9	2649	41	US-10-179-131-4541	Sequence 4541, Ap
C 801	18	2.9	1114	16	US-09-270-849B-170637	Sequence 170637, A	C 874	18	2.9	2682	1	PCT-US02-11260-14	Sequence 14, Appl1
C 802	18	2.9	1114	28	US-09-703-708-899	Sequence 899, App	C 875	18	2.9	2682	40	US-10-104-706A-14	Sequence 14, Appl1
C 803	18	2.9	1114	60	US-60-164-320-899	Sequence 899, App	C 876	18	2.9	2682	40	US-10-104-706A-14	Sequence 14, Appl1
C 804	18	2.9	1114	62	US-60-183-791-899	Sequence 899, App	C 877	18	2.9	2682	75	US-60-311-461-14	Sequence 14, Appl1
C 805	18	2.9	1133	83	US-60-391-781-223	Sequence 223, App	C 878	18	2.9	2810	5	US-08-117-375-1	Sequence 1, Appl1
C 806	18	2.9	1191	18	US-09-471-275-7334	Sequence 7334, Ap	C 879	18	2.9	2825	9	US-08-596-382-1	Sequence 1, Appl1
C 807	18	2.9	1211	61	US-60-172-360-3744	Sequence 3744, Ap	C 880	18	2.9	2825	23	US-09-614-150-27388	Sequence 27388, A
C 808	18	2.9	1231	1	PCT-US02-11260-6	Sequence 6, Appl1	C 881	18	2.9	2825	61	US-60-173-464-2083	Sequence 2083, Ap
C 809	18	2.9	1231	40	US-10-104-706-6	Sequence 6, Appl1	C 882	18	2.9	2825	61	US-60-173-464-14598	Sequence 14598, A
C 810	18	2.9	1231	40	US-10-104-706A-6	Sequence 6, Appl1	C 883	18	2.9	2825	63	US-60-191-637-27611	Sequence 27611, A
C 811	18	2.9	1231	75	US-60-311-461-6	Sequence 6, Appl1	C 884	18	2.9	2825	63	US-60-191-637-27611	Sequence 27611, A
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C 813	18	2.9	1235	31	US-09-819-091A-17766	Sequence 17766, A	C 886	18	2.9	2828	60	US-60-167-217-2572	Sequence 2572, Ap
C 814	18	2.9	1259	24	US-09-634-306B-255521	Sequence 255521, A	C 887	18	2.9	2828	67	US-60-167-217-17806	Sequence 17806, A
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C 821	18	2.9	1400	42	US-10-219-999-17577	Sequence 17577, A	C 894	18	2.9	3722	24	US-09-620-392-5172	Sequence 5172, Ap
C 822	18	2.9	1463	23	US-09-606-680-2899	Sequence 2899, Ap	C 895	18	2.9	3722	28	US-09-702-134-49413	Sequence 49413, A
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C 824	18	2.9	1488	16	US-09-248-796-5904	Sequence 5904, Ap	C 897	18	2.9	3740	52	US-60-082-116-164	Sequence 164, App



898	18	2.9	3742	50	US-60-068-139-233	Sequence 233, App
899	18	2.9	4245	68	US-60-248-798-67	Sequence 67, Appl
C 900	18	2.9	4422	68	US-60-248-798-40	Sequence 40, Appl
901	18	2.9	4895	23	US-09-614-150-14794	Sequence 14794, A
902	18	2.9	4895	60	US-60-167-217-14872	Sequence 14872, A
903	18	2.9	4895	61	US-60-173-464-12099	Sequence 12099, A
904	18	2.9	4895	63	US-60-191-637-14835	Sequence 14835, A
905	18	2.9	4895	63	US-60-191-681-11697	Sequence 11697, A
906	18	2.9	5001	41	US-10-172-086-70	Sequence 70, Appl
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909	18	2.9	6152	29	US-09-742-096-1	Sequence 1, Appl1
910	18	2.9	6154	42	US-10-221-613-69	Sequence 69, Appl
911	18	2.9	6310	42	US-10-221-613-229	Sequence 229, App
912	18	2.9	6612	24	US-09-620-392-13784	Sequence 13784, A
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914	18	2.9	6612	31	US-09-815-264-86761	Sequence 86761, A
C 915	18	2.9	7099	1	PCT-US01-01324-4867	Sequence 4867, Ap
C 916	18	2.9	7099	39	US-10-079-979-4867	Sequence 4867, Ap
917	18	2.9	7226	59	US-60-150-584-31	Sequence 31, Appl
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921	18	2.9	7841	24	US-09-620-392-59437	Sequence 59437, A
922	18	2.9	7940	61	US-60-173-464-21593	Sequence 21593, A
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924	18	2.9	7942	63	US-60-191-637-25988	Sequence 25988, A
925	18	2.9	7942	63	US-60-191-681-20597	Sequence 20597, A
926	18	2.9	8176	24	US-09-620-392-49866	Sequence 49866, A
927	18	2.9	8621	24	US-09-620-392-49235	Sequence 49235, A
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C 932	18	2.9	8923	1	PCT-US02-09370-1816	Sequence 1816, Ap
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C 934	18	2.9	8923	36	US-09-950-082-1266	Sequence 1266, Ap
C 935	18	2.9	8923	39	US-10-092-399-42403	Sequence 42403, A
936	18	2.9	8923	40	US-10-105-299-6460	Sequence 6460, Ap
937	18	2.9	8996	1	PCT-US02-08123-2013	Sequence 2013, Ap
938	18	2.9	8996	1	PCT-US02-08124-854	Sequence 854, App
939	18	2.9	8996	1	PCT-US02-08276-647	Sequence 647, App
940	18	2.9	8996	1	PCT-US02-08277-1133	Sequence 1133, Ap
941	18	2.9	8996	1	PCT-US02-09785-1119	Sequence 1119, Ap
942	18	2.9	9568	1	PCT-US01-01334-11389	Sequence 11389, A
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950	18	2.9	10073	61	US-60-173-464-11601	Sequence 11601, A
C 951	18	2.9	10770	1	PCT-US01-01335-515	Sequence 515, App
C 952	18	2.9	10770	1	PCT-US01-01354-33993	Sequence 33993, A
C 953	18	2.9	10770	30	US-09-764-905-33993	Sequence 33993, A
C 954	18	2.9	10770	39	US-10-074-024-515	Sequence 515, App
C 955	18	2.9	10770	39	US-10-092-399-33993	Sequence 33993, A
C 956	18	2.9	11098	24	US-09-620-392-23270	Sequence 23270, A
C 957	18	2.9	11185	1	PCT-US01-01333-1096	Sequence 1096, Ap
C 958	18	2.9	11185	30	US-09-764-860-1096	Sequence 1096, Ap
C 959	18	2.9	11185	39	US-10-074-095-1096	Sequence 1096, Ap
C 960	18	2.9	11185	42	US-10-212-872-1096	Sequence 1096, Ap
961	18	2.9	11706	1	PCT-US01-01334-12810	Sequence 12810, A
962	18	2.9	11706	30	US-09-764-874-12810	Sequence 12810, A
963	18	2.9	11706	39	US-10-092-400-12810	Sequence 12810, A
964	18	2.9	11887	24	US-09-620-392-29173	Sequence 29173, A
965	18	2.9	12141	64	US-60-207-421-7	Sequence 7, Appl1
C 966	18	2.9	12160	68	US-60-243-860-13	Sequence 13, Appl
C 967	18	2.9	12275	23	US-09-614-150-21997	Sequence 21997, A
C 968	18	2.9	12275	61	US-60-173-464-18063	Sequence 18063, A
C 969	18	2.9	12275	63	US-60-191-637-22068	Sequence 22068, A
C 970	18	2.9	12275	63	US-60-191-681-17406	Sequence 17406, A

C 971	18	2.9	12278	60	US-60-167-245-781	Sequence 781, App
C 972	18	2.9	12613	1	PCT-US01-01335-514	Sequence 514, App
C 973	18	2.9	12613	1	PCT-US01-01354-33990	Sequence 33990, A
C 974	18	2.9	12613	30	US-09-764-905-33990	Sequence 33990, A
C 975	18	2.9	12613	39	US-10-074-024-514	Sequence 514, App
C 976	18	2.9	12613	39	US-10-092-399-33990	Sequence 33990, A
C 977	18	2.9	12943	24	US-09-620-392-51698	Sequence 51698, A
978	18	2.9	13216	1	PCT-US01-01354-27904	Sequence 27904, A
979	18	2.9	13216	1	PCT-US01-01354-42373	Sequence 42373, A
980	18	2.9	13216	1	PCT-US02-09188-1706	Sequence 1706, Ap
981	18	2.9	13216	1	PCT-US02-09370-1808	Sequence 1808, Ap
982	18	2.9	13216	30	US-09-764-905-27904	Sequence 27904, A
983	18	2.9	13216	30	US-09-764-905-42373	Sequence 42373, A
984	18	2.9	13216	36	US-10-092-399-27904	Sequence 27904, A
985	18	2.9	13216	39	US-10-092-399-27904	Sequence 27904, A
986	18	2.9	13216	39	US-10-092-399-42373	Sequence 42373, A
987	18	2.9	13216	40	US-10-105-299-6452	Sequence 6452, Ap
988	18	2.9	13337	35	US-09-948-933-592	Sequence 592, App
989	18	2.9	13339	24	US-09-620-392-25743	Sequence 25743, A
990	18	2.9	13339	28	US-09-702-134-25529	Sequence 25529, A
991	18	2.9	13399	31	US-09-815-264-71988	Sequence 71988, A
992	18	2.9	13473	28	US-09-702-134-1594	Sequence 1294, Ap
993	18	2.9	13473	31	US-09-815-264-1594	Sequence 6154, A
994	18	2.9	13623	24	US-09-620-392-3358	Sequence 3358, Ap
995	18	2.9	13703	28	US-09-702-134-21507	Sequence 21507, A
996	18	2.9	13703	31	US-09-815-264-69384	Sequence 69384, A
997	18	2.9	13765	24	US-09-620-392-28845	Sequence 28845, A
C 998	18	2.9	15020	24	US-09-620-392-4699	Sequence 4699, Ap
999	18	2.9	15196	1	PCT-US01-01354-27915	Sequence 27915, A
1000	18	2.9	15196	1	PCT-US01-01354-42360	Sequence 42360, A

## ALIGNMENTS

```
US-09-669-817A-33201
RESULT 1
Sequence 33201, Application US/09669817A
GENERAL INFORMATION:
; APPLICANT: Byrum, Joseph R.
; APPLICANT: Ruan, Yijun G.
; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
; FILE REFERENCE: 38-21(5146)B
; CURRENT APPLICATION NUMBER: US/09/669,817A
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 60/156,951
; NUMBER OF SEQ ID NOS: 43701
; SEQ ID NO 33201
; LENGTH: 409
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: uc-osf1M202036f08b1
US-09-669-817A-33201

Query Match      6.4%; Score 39; DB 26; Length 409;
Best Local Similarity 100.0%; Pred. No. 1.8e-08;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 576 AGTTTGAGGAGGATTGAGACACGTGGGTGCGCA 614
Db 282 AGTTTGAGGAGGATTGAGACACGTGGGTGCGCA 320

RESULT 2
US-09-654-617-406307
; Sequence 406307, Application US/09654617
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jindong
```



```

; TITLE OF INVENTION: Annotated Plant Genes
; FILE REFERENCE: 38-21(15097)D
; CURRENT APPLICATION NUMBER: US/09/654,617
; CURRENT FILING DATE: 2000-09-05
; NUMBER OF SEQ ID NOS: 463173
; SEQ ID NO 406307
; LENGTH: 526
; TYPE: DNA
; ORGANISM: Oryza sativa nipponbare
US-09-654-617-406307

Query Match
Best Local Similarity 100.0%; Score 39; DB 25; Length 526;
Pred. No. 1.8e-08;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 576 AGTTTGAGAGGGGATTGAGACACTGTGGTGTGGCA 614
DB 320 AGTTTGAGAGGGGATTGAGACACTGTGGTGTGGCA 358

RESULT 3
US-09-684-016-406307
; Sequence 406307, Application US/09684016
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jindong
; TITLE OF INVENTION: Annotated Plant Genes
; FILE REFERENCE: 38-21(15097)D
; CURRENT APPLICATION NUMBER: US/09/684,016
; CURRENT FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: US 09/654,617
; NUMBER OF SEQ ID NOS: 463173
; SEQ ID NO 406307
; LENGTH: 526
; TYPE: DNA
; ORGANISM: Oryza sativa nipponbare
US-09-684-016-406307

Query Match
Best Local Similarity 100.0%; Score 39; DB 27; Length 526;
Pred. No. 1.8e-08;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 576 AGTTTGAGAGGGGATTGAGACACTGTGGTGTGGCA 614
DB 320 AGTTTGAGAGGGGATTGAGACACTGTGGTGTGGCA 358

RESULT 4
US-60-197-872-55012
; Sequence 55012, Application US/60197872
; GENERAL INFORMATION:
; APPLICANT: Bougri, Olegs
; APPLICANT: Byrum, Joseph R.
; APPLICANT: De La Pena, Robert C.
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Shukla, Hridayabhinarjan
; TITLE OF INVENTION: Nucleic acid Molecules and Other molecules associated with
; FILE REFERENCE: 38-21(51892)A
; CURRENT APPLICATION NUMBER: US/60/197,872
; CURRENT FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 76255
; SEQ ID NO 55012
; LENGTH: 526
; TYPE: DNA
; ORGANISM: Oryza sativa nipponbare
; OTHER INFORMATION: Clone ID: LIB3479-005-Q6-K1-F8
US-60-197-872-55012

Query Match
Best Local Similarity 100.0%; Score 39; DB 63; Length 526;
Pred. No. 1.8e-08;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```

QY 576 AGTTTGAGAGGGGATTGAGACACTGTGGTGTGGCA 614
DB 320 AGTTTGAGAGGGGATTGAGACACTGTGGTGTGGCA 358

RESULT 5
US-09-609-521-15/C
; Sequence 15, Application US/09609521
; GENERAL INFORMATION:
; APPLICANT: Unes, Scott
; TITLE OF INVENTION: PCR Selected fungal infection response
; FILE REFERENCE: 2005US
; CURRENT APPLICATION NUMBER: US/09/609,521
; CURRENT FILING DATE: 2000-07-03
; NUMBER OF SEQ ID NOS: 358
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 558
; TYPE: DNA
; ORGANISM: Rice
US-09-609-521-15

Query Match
Best Local Similarity 100.0%; Score 39; DB 23; Length 558;
Pred. No. 1.8e-08;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 576 AGTTTGAGAGGGGATTGAGACACTGTGGTGTGGCA 614
DB 412 AGTTTGAGAGGGGATTGAGACACTGTGGTGTGGCA 374

RESULT 6
US-09-654-617-385773
; Sequence 385773, Application US/09654617
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jindong
; TITLE OF INVENTION: Annotated Plant Genes
; FILE REFERENCE: 38-21(15097)D
; CURRENT APPLICATION NUMBER: US/09/654,617
; CURRENT FILING DATE: 2000-09-05
; NUMBER OF SEQ ID NOS: 463173
; SEQ ID NO 385773
; LENGTH: 3022
; TYPE: DNA
; ORGANISM: Oryza sativa
US-09-654-617-385773

Query Match
Best Local Similarity 100.0%; Score 39; DB 25; Length 3022;
Pred. No. 2e-08;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 576 AGTTTGAGAGGGGATTGAGACACTGTGGTGTGGCA 614
DB 320 AGTTTGAGAGGGGATTGAGACACTGTGGTGTGGCA 358

RESULT 7
US-09-684-016-385773
; Sequence 385773, Application US/09684016
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jindong
; TITLE OF INVENTION: Annotated Plant Genes
; FILE REFERENCE: 38-21(15097)D
; CURRENT APPLICATION NUMBER: US/09/684,016
; CURRENT FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: US 09/654,617
; NUMBER OF SEQ ID NOS: 463173
; SEQ ID NO 385773
; LENGTH: 3022
```

```
; TYPE: DNA
; ORGANISM: Oryza sativa
US-09-684-016-385773

Query Match
Best Local Similarity 100.0%; Score 39; DB 27; Length 3022;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 576 AGTTTGTGAGGGGATTGAGACACTGTGGGTGCGCA 614
DB 320 AGTTTGTGAGGGGATTGAGACACTGTGGGTGCGCA 358

RESULT 8
US-09-654-617-407653
; Sequence 407653, Application US/09654617
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: Annotated Plant Genes
; FILE REFERENCE: 38-21(15097)D
; CURRENT APPLICATION NUMBER: US/09/654,617
; CURRENT FILING DATE: 2000-09-05
; NUMBER OF SEQ ID NOS: 463173
; SEQ ID NO 407653
; LENGTH: 385
; TYPE: DNA
; ORGANISM: Oryza sativa
US-09-654-617-407653

Query Match
Best Local Similarity 100.0%; Score 37; DB 25; Length 385;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGCCAGCGGAAGCGCCCAAGTTCATCCGCAAG 37
DB 180 CCGGCCAGCGGAAGCGCCCAAGTTCATCCGCAAG 216

RESULT 9
US-09-669-817A-26130
; Sequence 26130, Application US/09669817A
; GENERAL INFORMATION:
; APPLICANT: Byrum, Joseph R.
; APPLICANT: Ruan, Yijun G.
; APPLICANT: Wallace, C. Kevin
; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
; FILE REFERENCE: 38-21(51469)B
; CURRENT APPLICATION NUMBER: US/09/669,817A
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 60/156,951
; PRIOR FILING DATE: 1999-09-30
; NUMBER OF SEQ ID NOS: 43701
; SEQ ID NO 26130
; LENGTH: 385
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: uC-osf1M202052f03b1
US-09-669-817A-26130

Query Match
Best Local Similarity 100.0%; Score 37; DB 26; Length 385;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGCCAGCGGAAGCGCCCAAGTTCATCCGCAAG 37
DB 180 CCGGCCAGCGGAAGCGCCCAAGTTCATCCGCAAG 216

RESULT 10
US-09-684-016-407653

; Sequence 407653, Application US/09684016
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jingdong
; TITLE OF INVENTION: Annotated Plant Genes
; FILE REFERENCE: 38-21(15097)D
; CURRENT APPLICATION NUMBER: US/09/684,016
; CURRENT FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: US 09/654,617
; PRIOR FILING DATE: 2000-09-05
; NUMBER OF SEQ ID NOS: 463173
; SEQ ID NO 407653
; LENGTH: 385
; TYPE: DNA
; ORGANISM: Oryza sativa
US-09-684-016-407653

Query Match
Best Local Similarity 100.0%; Score 37; DB 27; Length 385;
Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGGCCAGCGGAAGCGCCCAAGTTCATCCGCAAG 37
DB 180 CCGGCCAGCGGAAGCGCCCAAGTTCATCCGCAAG 216

RESULT 11
US-10-015-127-1052/c
; Sequence 1052, Application US/10015127
; GENERAL INFORMATION:
; APPLICANT: Bower, Stanley G.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; TITLE OF INVENTION: Spingomonas elodea genome sequences and uses thereof
; FILE REFERENCE: 38-10(15806)B
; CURRENT APPLICATION NUMBER: US/10/015,127
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US 60/252,455
; PRIOR FILING DATE: 2000-11-22
; NUMBER OF SEQ ID NOS: 14357
; SEQ ID NO 1052
; LENGTH: 1775
; TYPE: DNA
; ORGANISM: Spingomonas elodea
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(1775)
; OTHER INFORMATION: unsure at all n locations
US-10-015-127-1052

Query Match
Best Local Similarity 100.0%; Score 24; DB 38; Length 1775;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 308 TGTGTGATGTGTGTGTGTGTGTGTGTGTG 331
DB 1563 TGTGTGATGTGTGTGTGTGTGTGTGTGTG 1540

RESULT 12
US-60-234-446-529
; Sequence 529, Application US/60234446
; GENERAL INFORMATION:
; APPLICANT: Beasley, Ellen
; TITLE OF INVENTION: ISOLATED HUMAN SECRETED PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN SECRETED PROTEINS, AND
; FILE REFERENCE: CL000832
; CURRENT APPLICATION NUMBER: US/60/234,446
; CURRENT FILING DATE: 2000-09-18
; NUMBER OF SEQ ID NOS: 1797
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 529
```

```

? LENGTH: 32768
? TYPE: DNA
? ORGANISM: HUMAN
? FEATURE:
? NAME/KEY: misc_feature
? LOCATION: (1)...(32768)
? OTHER INFORMATION: n = A,T,C or G
US-60-234-446-529

```

Query Match	3.9%;	Score 24;	DB 67;	Length 32768;
Best Local Similarity	100.0%;	Pred. No. 0.9;		
Matches 24;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Qy	303	TGCTGTGTGATGTGCTGTGT	326
Db	14972	TGCTGTGTGATGTGCTGTGT	14995

```

RESULT 13
US-09-304-517A-24754
: Sequence 24754, Application US/09304517A
: GENERAL INFORMATION:
: APPLICANT: Cheikh, Nordine
: APPLICANT: Liu, Jingdong
: TITLE OF INVENTION: Annotated Plant Genes
: FILE REFERENCE: 38-21(15097)B
: CURRENT APPLICATION NUMBER: US/09/304, 517A
: CURRENT FILING DATE: 1999-05-06
: NUMBER OF SEQ ID NOS: 295529
: SEQ ID NO 24754
: LENGTH: 228
: TYPE: DNA
: ORGANISM: Zea mays
US-09-304-517A-24754

```

Query Match	3.7%	Score 23;	DB 17;	Length 228;
Best Local Similarity	100.0%	Pred. No. 2.2;		
Matches 23;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	15	GCGCCCCAAGTTCATCCGCAAG	37
Db	18	GCGCCCCCAAGTTCATCCGCAAG	40

```

RESULT 14
US-09-371-146A-24754
: Sequence 24754, Application US/09371146A
: GENERAL INFORMATION
: APPLICANT: Cheikh, Nordine
: APPLICANT: Liu, Jingdong
: TITLE OF INVENTION: ANNOTATED PLANT GENES
: FILE REFERENCE: 38-21(15)971C
: CURRENT APPLICATION NUMBER: US/09/371,146A
: CURRENT FILING DATE: 1999-08-09
: PRIOR APPLICATION NUMBER: US 09/304,517
: PRIOR FILING DATE: 1999-05-06
: NUMBER OF SEQ. ID NOS: 294310
: SEQ. ID NO 24754
: LENGTH: 228
: TYPE: DNA
: ORGANISM: Zea mays
US-09-371-146A-24754

```

```

Query Match      3.7%; Score 23; DB 17; Length 228;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0

```

QY 15 GCGCCCCAAGTTCATCCGCAAG 37  
|||  
Db 18 GCGCCCCCAAGTTCATCCGCAAG 40

## RESULT 15

```

US-09-985-678-24754
: Sequence 24754, Application US/09985678
: GENERAL INFORMATION:
: APPLICANT: Cheikh, Nordine
: APPLICANT: Liu, Jingdong
: TITLE OF INVENTION: Annotated Plant Genes
: FILE REFERENCE: 16517.255/38-21(15097)F
: CURRENT APPLICATION NUMBER: US/09/985,678
: PRIORITY FILING DATE: 2001-11-05
: PRIOR APPLICATION NUMBER: US 09/304,517
: PRIOR FILING DATE: 1999-05-06
: NUMBER OF SEQ ID NOS: 295529
: SEQ ID NO 24754
: LENGTH: 228
: TYPE: DNA
: ORGANISM: Zea mays
: US-09-985-678-24754

```

Query Match	3.7%	Score 23;	DB 37;	Length 228;
Best Local Similarity	100.0%;	Pred. No. 2.2;		
Matches 23;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY 15 GCGCCCCAAGTTCATCCGCAAG 37  
|||  
Db 18 GCGCCCCAAGTTCATCCGCAAG 40

Search completed: April 3, 2003, 13:03:17  
Job time : 2286 secs

Job time : 2286 secs

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GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: April 3, 2003, 12:29:37 ; Search time 406 Seconds  
(without alignments)  
5844.021 Million cell updates/sec

Title: US-09-856-725-2

Perfect score: 614  
Sequence: 1 ccgcgcacagcggaagcgccc.....ggacactgtgggtgcgcga 614

Scoring table: OLIGO NUC  
Gapop 60.0 , Gapext 60.0

Searched: 5543508 seqs, 1932143857 residues

Word size : 0

Total number of hits satisfying chosen parameters: 11087016

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Database : Pending\_Patents\_NA\_New.\*

1: /cgn2\_6/prodata/1/pna/PCT\_NEW\_COMB.seq:\*  
2: /cgn2\_6/prodata/1/pna/US06\_NEW\_COMB.seq:\*  
3: /cgn2\_6/prodata/1/pna/US07\_NEW\_COMB.seq:\*  
4: /cgn2\_6/prodata/1/pna/US08\_NEW\_COMB.seq:\*  
5: /cgn2\_6/prodata/1/pna/US09\_NEW\_COMB.seq:\*  
6: /cgn2\_6/prodata/1/pna/US09\_NEW\_COMB.seq:\*  
7: /cgn2\_6/prodata/1/pna/US10\_NEW\_COMB.seq:\*  
8: /cgn2\_6/prodata/1/pna/US10\_NEW\_COMB.seq:\*  
9: /cgn2\_6/prodata/1/pna/US60\_NEW\_COMB.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	614	100.0	614	6	Sequence 2, Appl1
2	540	87.9	540	6	Sequence 1, Appl1
3	22	3.6	758	7	Sequence 28714, A
4	21	3.4	486	8	Sequence 42083, A
5	21	3.4	601	6	Sequence 7004, Ap
6	21	3.4	601	6	Sequence 7005, Ap
7	21	3.4	892	8	Sequence 26463, A
8	21	3.4	37531	6	Sequence 602, Appl
9	21	3.4	37531	6	Sequence 764, Appl
10	19	3.1	205	9	Sequence 21059, A
11	19	3.1	305	9	Sequence 45025, A
12	19	3.1	365	8	Sequence 31393, A
13	19	3.1	389	8	Sequence 26676, A
14	19	3.1	435	6	Sequence 28453, A
15	19	3.1	489	6	Sequence 159075, A
16	19	3.1	740	6	Sequence 167098, A
17	19	3.1	825	8	Sequence 16485, A
18	19	3.1	1422	8	Sequence 13014, A
19	19	3.1	2265	7	Sequence 26283, A
20	19	3.1	2530	9	Sequence 10344, A
21	19	3.1	2609	9	Sequence 10344, A
22	19	3.1	6668	8	Sequence 1669, Ap
23	19	3.1	11726	8	Sequence 2036, Ap
24	19	3.1	12269	8	Sequence 1383, Ap

25	19	3.1	15027	5	US-09-949-016-12660	Sequence 12660, A
26	19	3.1	15036	5	US-09-949-016-13351	Sequence 13351, A
27	19	3.1	17419	8	US-10-240-453-111	Sequence 111, App
28	19	3.1	17419	8	US-10-311-455-1267	Sequence 1267, App
29	19	3.1	32393	5	US-09-949-016-14203	Sequence 14203, A
30	19	3.1	83708	5	US-09-949-016-17207	Sequence 17207, A
31	19	3.1	87562	5	US-09-949-016-13685	Sequence 13685, A
32	19	3.1	240825	1	PCT-US02-37760-127	Sequence 127, App
33	19	3.1	271134	5	US-09-949-016-12705	Sequence 12705, A
34	19	3.1	305491	5	US-09-949-016-17550	Sequence 17550, A
35	19	3.1	833904	5	US-09-947-911-222	Sequence 222, App
36	19	3.1	943500	5	US-09-947-916-206	Sequence 206, App
37	18	2.9	103	6	US-09-912-293-188179	Sequence 188179, A
38	18	2.9	122	8	US-10-349-781-21951	Sequence 21951, A
39	18	2.9	178	8	US-10-325-899-8699	Sequence 8699, App
40	18	2.9	204	6	US-09-615-606A-36459	Sequence 36459, A
41	18	2.9	290	5	US-09-539-806B-47804	Sequence 47804, A
42	18	2.9	292	5	US-09-539-806B-48012	Sequence 48012, A
43	18	2.9	348	6	US-09-912-293-176734	Sequence 176734, A
44	18	2.9	351	6	US-09-912-293-191575	Sequence 191575, A
45	18	2.9	361	6	US-09-615-606A-41253	Sequence 41253, A
46	18	2.9	375	6	US-10-144-771-32748	Sequence 32748, A
47	18	2.9	397	8	US-09-912-293-191559	Sequence 191559, A
48	18	2.9	401	6	US-09-513-999C-28718	Sequence 28718, A
49	18	2.9	417	6	US-10-195-637A-98	Sequence 98, App1
50	18	2.9	448	1	PCT-US03-03194-2178	Sequence 2178, App
51	18	2.9	448	1	PCT-US03-03194-2178	Sequence 2178, App
52	18	2.9	453	8	US-10-144-771-25734	Sequence 25734, A
53	18	2.9	458	8	US-10-144-771-26774	Sequence 26774, A
54	18	2.9	492	8	US-10-144-771-28944	Sequence 28944, A
55	18	2.9	546	5	US-09-947-907-17440	Sequence 17440, A
56	18	2.9	601	5	US-09-949-016-25637	Sequence 25637, A
57	18	2.9	601	5	US-09-949-016-51863	Sequence 51863, A
58	18	2.9	601	5	US-09-949-016-51864	Sequence 51864, A
59	18	2.9	601	5	US-09-949-016-94446	Sequence 94446, A
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61	18	2.9	601	5	US-09-949-016-94448	Sequence 94448, A
62	18	2.9	601	5	US-09-949-016-119895	Sequence 119895, A
63	18	2.9	601	5	US-09-949-016-127939	Sequence 127939, A
64	18	2.9	601	5	US-09-949-016-127976	Sequence 127976, A
65	18	2.9	601	5	US-09-949-016-134774	Sequence 134774, A
66	18	2.9	601	5	US-09-949-016-136729	Sequence 136729, A
67	18	2.9	601	5	US-09-949-016-160403	Sequence 160403, A
68	18	2.9	601	5	US-09-949-016-163061	Sequence 163061, A
69	18	2.9	601	5	US-09-949-016-163491	Sequence 163491, A
70	18	2.9	601	5	US-09-949-016-183714	Sequence 183714, A
71	18	2.9	601	6	US-09-949-004-4666	Sequence 4666, App
72	18	2.9	601	6	US-09-949-004-5598	Sequence 5598, App
73	18	2.9	655	8	US-10-144-771-8284	Sequence 8284, App
74	18	2.9	780	1	PCT-US03-03482-4262	Sequence 4262, App
75	18	2.9	895	8	US-10-144-771-33911	Sequence 33911, A
76	18	2.9	921	8	US-10-144-771-24540	Sequence 24540, A
77	18	2.9	954	7	US-10-369-493-25773	Sequence 25773, A
78	18	2.9	1096	8	US-10-276-774-573	Sequence 573, App
79	18	2.9	1248	8	US-10-282-122A-35463	Sequence 35463, A
80	18	2.9	1373	8	US-10-282-122A-26842	Sequence 26842, A
81	18	2.9	1388	8	US-10-144-771-9415	Sequence 9415, App
82	18	2.9	1514	7	US-10-043-651-321	Sequence 321, App
83	18	2.9	1585	8	US-10-144-771-16032	Sequence 16032, A
84	18	2.9	1661	8	US-10-342-224-19	Sequence 19, App1
85	18	2.9	1928	8	US-10-144-771-28970	Sequence 28970, A
86	18	2.9	2157	8	US-10-182-122A-40616	Sequence 40616, A
87	18	2.9	4359	8	US-10-282-122A-15569	Sequence 15569, A
88	18	2.9	4684	6	US-09-948-124-84	Sequence 84, App1
89	18	2.9	5001	8	US-10-240-452-74	Sequence 74, App1
90	18	2.9	5001	8	US-10-311-506-34	Sequence 34, App1
91	18	2.9	5001	8	US-10-311-506-34	Sequence 34, App1
92	18	2.9	5001	8	US-10-311-506-34	Sequence 34, App1
93	18	2.9	5001	8	US-10-311-506-34	Sequence 34, App1
94	18	2.9	5273	8	US-10-311-455-895	Sequence 895, App
95	18	2.9	5273	8	US-10-311-455-847	Sequence 847, App
96	18	2.9	5296	8	US-10-311-455-1258	Sequence 1258, App
97	18	2.9	5628	7	US-10-369-493-45972	Sequence 45972, A

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99	18	2.9	5856	8	US-10-311-455-790	Sequence 790, App	172	18	2.9	107760	5	US-09-949-016-12662	Sequence 12662, A
100	18	2.9	5928	8	US-10-311-455-2211	Sequence 2211, App	173	18	2.9	107760	5	US-09-949-016-13412	Sequence 13412, A
101	18	2.9	6072	8	US-10-311-455-4	Sequence 4, Appl1	174	18	2.9	107751	5	US-09-949-016-15413	Sequence 15413, A
102	18	2.9	6113	8	US-10-311-455-775	Sequence 775, App	175	18	2.9	107751	5	US-09-949-016-15414	Sequence 15414, A
103	18	2.9	6289	8	US-10-311-455-1002	Sequence 1002, App	176	18	2.9	107751	5	US-09-949-016-15415	Sequence 15415, A
104	18	2.9	6381	8	US-10-240-485-71	Sequence 71, Appl	177	18	2.9	107925	5	US-09-949-016-11875	Sequence 11875, A
105	18	2.9	6381	8	US-10-311-455-939	Sequence 939, App	178	18	2.9	107925	5	US-09-949-016-15404	Sequence 15404, A
106	18	2.9	6631	8	US-10-240-453-214	Sequence 214, App	179	18	2.9	107926	5	US-09-949-016-15405	Sequence 15405, A
107	18	2.9	6631	8	US-10-311-455-166	Sequence 166, App	180	18	2.9	107926	5	US-09-949-016-15406	Sequence 15406, A
108	18	2.9	6681	8	US-10-240-452-4	Sequence 4, Appl1	181	18	2.9	107926	5	US-09-949-016-15407	Sequence 15407, A
109	18	2.9	6681	8	US-10-311-455-128	Sequence 128, App	182	18	2.9	114426	5	US-09-949-016-15078	Sequence 15078, A
110	18	2.9	6740	8	US-10-311-455-1119	Sequence 1119, App	183	18	2.9	154626	5	US-09-949-016-114000	Sequence 14000, A
111	18	2.9	7165	8	US-10-311-455-724	Sequence 724, App	184	18	2.9	162005	8	US-10-272-665-36	Sequence 36, Appl
112	18	2.9	7384	8	US-10-311-455-719	Sequence 719, App	185	18	2.9	162005	8	US-10-273-321-35	Sequence 35, Appl
113	18	2.9	7781	8	US-10-311-455-1142	Sequence 1142, App	186	18	2.9	162005	8	US-10-273-321-36	Sequence 36, Appl
114	18	2.9	7781	8	US-10-311-455-13894	Sequence 13894, A	187	18	2.9	162005	8	US-10-273-321-36	Sequence 36, Appl
115	18	2.9	8398	8	US-10-102-143-18	Sequence 18, Appl	188	18	2.9	162005	8	US-10-273-321-36	Sequence 36, Appl
116	18	2.9	8398	8	US-10-311-455-1660	Sequence 1660, App	189	18	2.9	162005	8	US-10-272-756-35	Sequence 35, Appl
117	18	2.9	9243	8	US-10-240-453-128	Sequence 128, App	190	18	2.9	162005	8	US-10-272-756-36	Sequence 36, Appl
118	18	2.9	11726	8	US-10-311-455-2036	Sequence 2036, App	191	18	2.9	162005	8	US-10-273-228-35	Sequence 35, Appl
119	18	2.9	12069	8	US-10-257-166-112	Sequence 12, Appl	192	18	2.9	162914	8	US-09-949-016-1578	Sequence 36, Appl
120	18	2.9	13125	8	US-10-240-485-1100	Sequence 110, App	193	18	2.9	170834	8	US-10-308-488-7	Sequence 7, Appl1
121	18	2.9	13125	8	US-10-311-455-1200	Sequence 1200, App	194	18	2.9	174262	5	US-09-949-016-14259	Sequence 14259, A
122	18	2.9	13784	8	US-10-257-166-144	Sequence 144, App	195	18	2.9	235452	5	US-09-949-016-13675	Sequence 13675, A
123	18	2.9	15077	5	US-09-949-016-12441	Sequence 12441, A	196	18	2.9	235452	5	US-09-949-016-13978	Sequence 13978, A
124	18	2.9	15077	5	US-09-949-016-17577	Sequence 17577, A	197	18	2.9	304533	5	US-09-949-016-15372	Sequence 15372, A
125	18	2.9	17419	8	US-10-240-453-112	Sequence 112, App	198	18	2.9	304533	5	US-09-949-016-13388	Sequence 13388, A
126	18	2.9	17419	8	US-10-311-455-1268	Sequence 1268, App	199	18	2.9	304533	5	US-09-949-016-15371	Sequence 15371, A
127	18	2.9	18133	8	US-10-257-166-99	Sequence 99, Appl	200	18	2.9	304533	5	US-09-949-016-15372	Sequence 15372, A
128	18	2.9	18133	8	US-10-311-455-913	Sequence 913, App	201	18	2.9	314798	5	US-09-949-016-13539	Sequence 13539, A
129	18	2.9	18857	5	US-09-949-016-13778	Sequence 13778, A	202	18	2.9	601181	6	US-09-949-016-11808	Sequence 11808, A
130	18	2.9	19203	5	US-09-949-016-15519	Sequence 15519, A	203	18	2.9	636591	5	US-09-949-016-11808	Sequence 11808, A
131	18	2.9	19210	5	US-09-949-016-12129	Sequence 12129, A	204	18	2.9	636591	5	US-09-949-016-13388	Sequence 13388, A
132	18	2.9	20441	5	US-09-949-016-14476	Sequence 14476, A	205	18	2.9	636591	5	US-09-949-016-13388	Sequence 13388, A
133	18	2.9	23925	5	US-09-949-016-11797	Sequence 11797, A	206	18	2.9	833705	6	US-09-948-124-76	Sequence 76, Appl
134	18	2.9	23925	5	US-09-949-016-13301	Sequence 13301, A	207	18	2.9	863350	5	US-09-947-911-151	Sequence 151, App
135	18	2.9	24109	5	US-10-348-119-71	Sequence 71, Appl	208	18	2.9	974684	5	US-09-947-911-340	Sequence 340, App
136	18	2.9	34875	9	US-60-446-133-316	Sequence 14689, A	209	18	2.9	104426	5	US-09-947-911-85	Sequence 85, Appl
137	18	2.9	34875	9	US-09-949-016-11857	Sequence 11857, A	210	18	2.9	1178355	5	US-09-947-911-305	Sequence 305, App
138	18	2.9	39754	5	US-09-949-016-16699	Sequence 16699, A	211	18	2.9	1782518	5	US-09-947-911-363	Sequence 363, App
139	18	2.9	42741	5	US-09-949-016-11857	Sequence 11857, A	212	18	2.9	2420479	5	US-09-947-911-305	Sequence 305, App
140	18	2.9	43577	5	US-09-949-016-1664	Sequence 56, Appl	213	18	2.9	3037227	8	US-10-312-841-1	Sequence 1, Appl1
141	18	2.9	46034	8	US-10-144-779-56	Sequence 57, Appl	214	18	2.9	3673778	8	US-10-312-841-2	Sequence 2, Appl1
142	18	2.9	46034	8	US-10-144-779-57	Sequence 13241, A	215	18	2.9	3673778	8	US-09-947-911-107	Sequence 107, App
143	18	2.9	47493	5	US-09-949-016-13241	Sequence 16308, A	216	18	2.9	4148350	5	US-09-947-911-288	Sequence 288, App
144	18	2.9	48691	5	US-09-949-016-16308	Sequence 14091, A	217	18	2.9	4622116	5	US-60-427-808-553215	Sequence 553215, A
145	18	2.9	48691	5	US-09-949-016-16308	Sequence 11771, A	218	18	2.8	91	6	US-09-912-293-31263	Sequence 31263, A
146	18	2.9	57139	5	US-09-949-016-11771	Sequence 16233, A	219	17	2.8	91	6	US-09-912-293-88451	Sequence 88451, A
147	18	2.9	57139	5	US-09-949-016-16233	Sequence 13983, A	220	17	2.8	132	6	US-09-532-315B-41916	Sequence 41916, A
148	18	2.9	57139	5	US-09-949-016-13983	Sequence 672, App	221	17	2.8	181	6	US-09-532-315B-41917	Sequence 41917, A
149	18	2.9	59774	6	US-09-949-004-672	Sequence 1457, App	222	17	2.8	196	7	US-10-304-123A-5062	Sequence 5062, App
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151	18	2.9	69909	5	US-09-949-016-13423	Sequence 17553, A	224	17	2.8	201	6	US-60-443-566-22013	Sequence 22013, A
152	18	2.9	71278	5	US-09-949-016-11851	Sequence 17553, A	225	17	2.8	202	6	US-09-513-999C-35563	Sequence 35563, A
153	18	2.9	71278	5	US-09-949-016-13220	Sequence 13220, A	226	17	2.8	204	6	US-09-912-293-26091	Sequence 26091, A
154	18	2.9	77586	5	US-09-949-016-13221	Sequence 13221, A	227	17	2.8	229	6	US-09-912-293-14710	Sequence 14710, A
155	18	2.9	80246	6	US-09-728-552-4	Sequence 4, Appl1	228	17	2.8	238	8	US-10-349-781-728	Sequence 728, App
156	18	2.9	80595	6	US-09-728-552-3	Sequence 709, App	229	17	2.8	249	6	US-09-615-606A-52374	Sequence 52374, A
157	18	2.9	81335	6	US-09-949-002-709	Sequence 595, App	230	17	2.8	250	6	US-09-513-999C-32028	Sequence 32028, A
158	18	2.9	83707	5	US-09-949-002-595	Sequence 17011, A	231	17	2.8	254	6	US-09-615-606A-58824	Sequence 58824, A
159	18	2.9	87780	5	US-09-949-016-17011	Sequence 16279, A	232	17	2.8	257	6	US-09-615-606A-59024	Sequence 59024, A
160	18	2.9	88240	5	US-09-949-016-15848	Sequence 15848, A	233	17	2.8	259	8	US-10-349-781-16592	Sequence 16592, A
161	18	2.9	90428	5	US-09-949-016-12564	Sequence 12564, A	234	17	2.8	261	6	US-09-513-999C-35233	Sequence 35233, A
162	18	2.9	90428	5	PCT-US02-40717-29	Sequence 29, Appl	235	17	2.8	262	6	US-09-615-606A-23956	Sequence 23956, A
163	18	2.9	93273	1	US-09-949-016-16324	Sequence 16324, A	236	17	2.8	267	7	US-10-378-548-422	Sequence 422, App
164	18	2.9	94593	5	US-09-949-016-12663	Sequence 12663, A	237	17	2.8	284	6	US-09-912-293-20300	Sequence 20300, A
165	18	2.9	107329	5	US-09-949-016-12664	Sequence 12664, A	238	17	2.8	285	6	US-09-533-806B-25487	Sequence 25487, A
166	18	2.9	107329	5	US-09-949-016-15408	Sequence 15408, A	239	17	2.8	290	6	US-09-615-606A-34331	Sequence 34331, A
167	18	2.9	107330	5	US-09-949-016-15409	Sequence 15409, A	240	17	2.8	291	7	US-10-304-123A-5042	Sequence 5042, App
168	18	2.9	107330	5	US-09-949-016-15410	Sequence 15410, A	241	17	2.8	316	6	US-09-912-293-179745	Sequence 179745, A
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170	18	2.9	107330	5			243	17	2.8				

C 244	17	2.8	321	6	US-09-615-606A-47734	Sequence 47734, A	317	17	2.8	601	5	US-09-949-016-98564	Sequence 98564, A
245	17	2.8	329	5	US-09-539-806B-48199	Sequence 48199, A	318	17	2.8	601	5	US-09-949-016-98830	Sequence 98830, A
246	17	2.8	348	6	US-09-912-293-100787	Sequence 100787, A	319	17	2.8	601	5	US-09-949-016-99096	Sequence 99096, A
247	17	2.8	351	6	US-09-615-606A-50815	Sequence 50815, A	320	17	2.8	601	5	US-09-949-016-99362	Sequence 99362, A
248	17	2.8	365	6	US-09-912-293-5682	Sequence 5682, Ap	321	17	2.8	601	5	US-09-949-016-99628	Sequence 99628, A
249	17	2.8	368	6	US-09-615-606A-18586	Sequence 18586, A	322	17	2.8	601	5	US-09-949-016-99894	Sequence 99894, A
C 250	17	2.8	370	6	US-09-912-293-67562	Sequence 67562, A	323	17	2.8	601	5	US-09-949-016-100160	Sequence 100160, A
251	17	2.8	403	6	US-09-615-606A-52386	Sequence 52386, A	324	17	2.8	601	5	US-09-949-016-100426	Sequence 100426, A
252	17	2.8	411	6	US-09-912-293-90027	Sequence 90027, A	325	17	2.8	601	5	US-09-949-016-100692	Sequence 100692, A
253	17	2.8	428	6	US-09-615-606A-45291	Sequence 45291, A	326	17	2.8	601	5	US-09-949-016-100996	Sequence 100996, A
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256	17	2.8	440	6	US-09-912-293-62078	Sequence 62078, A	329	17	2.8	601	5	US-09-949-016-101794	Sequence 101794, A
C 257	17	2.8	441	1	PCT-US02-11475A-637	Sequence 637, App	C 330	17	2.8	601	5	US-09-949-016-103922	Sequence 103922, A
258	17	2.8	445	1	PCT-US03-03482-2920	Sequence 2920, App	C 331	17	2.8	601	5	US-09-949-016-107992	Sequence 107992, A
259	17	2.8	445	1	PCT-US03-03194-2901	Sequence 2901, Ap	C 332	17	2.8	601	5	US-09-949-016-125472	Sequence 125472, A
260	17	2.8	445	9	US-60-436-643-2901	Sequence 2901, Ap	C 333	17	2.8	601	5	US-09-949-016-135263	Sequence 135263, A
261	17	2.8	485	7	US-10-304-123A-1691	Sequence 1691, Ap	334	17	2.8	601	5	US-09-949-016-146722	Sequence 146722, A
262	17	2.8	504	6	US-09-912-293-125845	Sequence 125845, A	335	17	2.8	601	5	US-09-949-016-151201	Sequence 151201, A
C 263	17	2.8	508	6	US-09-912-293-41866	Sequence 41866, A	336	17	2.8	601	5	US-09-949-016-159277	Sequence 159277, A
264	17	2.8	512	6	US-09-912-293-108373	Sequence 108373, A	337	17	2.8	601	5	US-09-949-016-165009	Sequence 165009, A
265	17	2.8	512	6	US-09-912-293-155738	Sequence 155738, A	338	17	2.8	601	5	US-09-949-016-169136	Sequence 169136, A
266	17	2.8	521	6	US-09-531-113-3215	Sequence 3215, Ap	C 339	17	2.8	601	5	US-09-949-016-169583	Sequence 169583, A
267	17	2.8	529	6	US-09-912-293-235529	Sequence 235529, A	340	17	2.8	601	5	US-09-949-016-170039	Sequence 170039, A
268	17	2.8	538	8	US-10-349-781-51370	Sequence 51370, A	341	17	2.8	601	5	US-09-949-016-170310	Sequence 170310, A
C 269	17	2.8	541	8	US-10-144-771-37595	Sequence 37595, A	342	17	2.8	601	5	US-09-949-016-172597	Sequence 172597, A
C 270	17	2.8	601	5	US-09-947-907-215	Sequence 215, App	C 343	17	2.8	601	5	US-09-949-016-175535	Sequence 175535, A
C 271	17	2.8	601	5	US-09-947-907-736	Sequence 736, App	C 344	17	2.8	601	5	US-09-949-016-175536	Sequence 175536, A
C 272	17	2.8	601	5	US-09-947-907-4119	Sequence 4119, Ap	345	17	2.8	601	5	US-09-949-016-176672	Sequence 176672, A
C 273	17	2.8	601	5	US-09-947-907-4120	Sequence 4120, Ap	346	17	2.8	601	5	US-09-949-016-176673	Sequence 176673, A
C 274	17	2.8	601	5	US-09-947-907-4121	Sequence 4121, Ap	347	17	2.8	601	5	US-09-949-016-17674	Sequence 17674, A
C 275	17	2.8	601	5	US-09-947-907-4122	Sequence 4122, Ap	C 348	17	2.8	601	5	US-09-949-016-178241	Sequence 178241, A
C 276	17	2.8	601	5	US-09-947-907-11742	Sequence 11742, A	C 349	17	2.8	601	5	US-09-949-016-183539	Sequence 183539, A
C 277	17	2.8	601	5	US-09-947-907-12684	Sequence 12684, A	C 350	17	2.8	601	5	US-09-949-016-183540	Sequence 183540, A
C 278	17	2.8	601	5	US-09-949-016-20757	Sequence 20757, A	C 351	17	2.8	601	5	US-09-949-016-183541	Sequence 183541, A
C 279	17	2.8	601	5	US-09-949-016-20758	Sequence 20758, A	C 352	17	2.8	601	5	US-09-949-016-183542	Sequence 183542, A
C 280	17	2.8	601	5	US-09-949-016-20759	Sequence 20759, A	353	17	2.8	601	5	US-09-949-016-183710	Sequence 183710, A
C 281	17	2.8	601	5	US-09-949-016-20760	Sequence 20760, A	354	17	2.8	601	5	US-09-949-016-183711	Sequence 183711, A
C 282	17	2.8	601	5	US-09-949-016-25598	Sequence 25598, A	355	17	2.8	601	5	US-09-949-016-186489	Sequence 186489, A
283	17	2.8	601	5	US-09-949-016-25599	Sequence 25599, A	356	17	2.8	601	5	US-09-949-016-186747	Sequence 186747, A
284	17	2.8	601	5	US-09-949-016-26628	Sequence 26628, A	357	17	2.8	601	5	US-09-949-016-187013	Sequence 187013, A
C 285	17	2.8	601	5	US-09-949-016-31402	Sequence 31402, A	358	17	2.8	601	5	US-09-949-016-187014	Sequence 187014, A
286	17	2.8	601	5	US-09-949-016-46854	Sequence 46854, A	359	17	2.8	601	5	US-09-949-016-187015	Sequence 187015, A
C 287	17	2.8	601	5	US-09-949-016-46995	Sequence 46995, A	360	17	2.8	601	5	US-09-949-016-190717	Sequence 190717, A
C 288	17	2.8	601	5	US-09-949-016-50964	Sequence 50964, A	361	17	2.8	601	5	US-09-949-016-192504	Sequence 192504, A
C 289	17	2.8	601	5	US-09-949-016-50965	Sequence 50965, A	362	17	2.8	601	5	US-09-949-016-192505	Sequence 192505, A
C 290	17	2.8	601	5	US-09-949-016-50966	Sequence 50966, A	C 363	17	2.8	601	5	US-09-949-016-198975	Sequence 198975, A
C 291	17	2.8	601	5	US-09-949-016-51018	Sequence 51018, A	C 364	17	2.8	601	5	US-09-949-016-198976	Sequence 198976, A
C 292	17	2.8	601	5	US-09-949-016-51019	Sequence 51019, A	C 365	17	2.8	601	5	US-09-949-016-200333	Sequence 200333, A
C 293	17	2.8	601	5	US-09-949-016-51020	Sequence 51020, A	C 366	17	2.8	601	5	US-09-949-016-204631	Sequence 204631, A
C 294	17	2.8	601	5	US-09-949-016-52386	Sequence 52386, A	C 367	17	2.8	601	6	US-09-949-002-8067	Sequence 8067, Ap
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C 297	17	2.8	601	5	US-09-949-016-58077	Sequence 58077, A	C 370	17	2.8	601	6	US-09-949-002-8370	Sequence 8370, Ap
C 298	17	2.8	601	5	US-09-949-016-63740	Sequence 63740, A	371	17	2.8	601	6	US-09-949-004-4542	Sequence 4542, Ap
C 299	17	2.8	601	5	US-09-949-016-66413	Sequence 66413, A	C 372	17	2.8	601	6	US-09-949-004-5051	Sequence 5051, Ap
C 300	17	2.8	601	5	US-09-949-016-72817	Sequence 72817, A	C 373	17	2.8	601	6	US-09-949-004-5052	Sequence 5052, Ap
C 301	17	2.8	601	5	US-09-949-016-75667	Sequence 75667, A	C 374	17	2.8	601	6	US-09-949-004-5053	Sequence 5053, Ap
302	17	2.8	601	5	US-09-949-016-76087	Sequence 76087, A	C 375	17	2.8	636	8	US-10-282-122A-12763	Sequence 12763, A
303	17	2.8	601	5	US-09-949-016-79360	Sequence 79360, A	376	17	2.8	660	1	PCT-US03-03194-2294	Sequence 2294, Ap
304	17	2.8	601	5	US-09-949-016-79361	Sequence 79361, A	377	17	2.8	660	9	US-60-436-643-2294	Sequence 2294, Ap
305	17	2.8	601	5	US-09-949-016-87497	Sequence 87497, A	C 378	17	2.8	666	5	US-09-675-78A-1444	Sequence 1644, Ap
306	17	2.8	601	5	US-09-949-016-89146	Sequence 89146, A	C 379	17	2.8	666	6	US-09-949-016-97632052	Sequence 32052, A
C 307	17	2.8	601	5	US-09-949-016-92577	Sequence 92577, A	C 380	17	2.8	666	6	US-09-949-016-97632052	Sequence 32052, A
C 308	17	2.8	601	5	US-09-949-016-92578	Sequence 92578, A	381	17	2.8	728	8	US-10-144-771-34284	Sequence 34284, A
309	17	2.8	601	5	US-09-949-016-96436	Sequence 96436, A	382	17	2.8	728	8	US-10-144-771-44952	Sequence 44952, A
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311	17	2.8	601	5	US-09-949-016-96368	Sequence 96968, A	C 384	17	2.8	904	8	US-10-017-167-1153	Sequence 1153, App
312	17	2.8	601	5	US-09-949-016-97234	Sequence 97234, A	C 385	17	2.8	1020	8	US-10-144-771-37141	Sequence 37141, A
313	17	2.8	601	5	US-09-949-016-97500	Sequence 97500, A	C 386	17	2.8	1026	8	US-10-144-771-20043	Sequence 20043, A
314	17	2.8	601	5	US-09-949-016-97766	Sequence 97766, A	C 387	17	2.8	1149	6	US-09-124-676-32045	Sequence 32045, A
315	17	2.8	601	5	US-09-949-016-98032	Sequence 98032, A	C 388	17	2.8	1149	6	US-09-724-676A-31045	Sequence 31045, A
316	17	2.8	601	5	US-09-949-016-98298	Sequence 98298, A	389	17	2.8	1194	1	PCT-US02-36133-293	Sequence 293, App





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C 538	17	2.8	5062	1	PCT-US02-19592-2	Sequence 2, Appl	C 611	17	2.8	9464	9	US-60-452-680-3354	Sequence 3354, Ap
C 539	17	2.8	5062	5	US-09-949-016-499	Sequence 499, App	C 612	17	2.8	9432	8	US-10-311-455-629	Sequence 629, App
C 540	17	2.8	5062	8	US-10-159-563-325	Sequence 325, App	C 613	17	2.8	10034	8	US-10-311-455-1858	Sequence 1858, Ap
C 541	17	2.8	5062	8	US-10-101-510-58	Sequence 58, Appl	C 614	17	2.8	10039	8	US-10-311-455-2015	Sequence 2015, Ap
C 542	17	2.8	5062	8	US-10-126-052A-426	Sequence 426, App	C 615	17	2.8	10096	8	US-10-144-779-1147	Sequence 1147, Ap
C 543	17	2.8	5239	8	US-10-311-455-245	Sequence 245, App	C 616	17	2.8	10211	6	US-10-342-887-1127	Sequence 1127, Ap
C 544	17	2.8	5314	1	US-10-240-454-54	Sequence 54, Appl	C 617	17	2.8	10211	6	US-09-918-624B-2	Sequence 2, Appl
C 545	17	2.8	5313	8	PCT-US02-36935-16	Sequence 16, Appl	C 618	17	2.8	10257	9	US-60-443-566-1929	Sequence 1929, Ap
C 546	17	2.8	5313	8	US-10-298-122-16	Sequence 16, Appl	C 619	17	2.8	10274	6	US-09-724-676-26096	Sequence 26096, A
C 547	17	2.8	5389	6	US-09-724-676-35634	Sequence 35634, A	C 620	17	2.8	10274	6	US-10-240-965-201	Sequence 201, App
C 548	17	2.8	5389	6	US-09-724-676A-35634	Sequence 35634, A	C 621	17	2.8	10281	8	US-10-240-965-201	Sequence 201, App
C 549	17	2.8	5435	9	US-60-452-680-11737	Sequence 11737, A	C 622	17	2.8	10320	5	US-09-949-016-12117	Sequence 12117, A
C 550	17	2.8	5435	9	US-60-453-135-7350	Sequence 7350, Ap	C 623	17	2.8	10321	5	US-09-949-016-16155	Sequence 16155, A
C 551	17	2.8	5449	8	US-10-311-455-1614	Sequence 1614, Ap	C 624	17	2.8	10326	8	US-10-311-455-2140	Sequence 2140, Ap
C 552	17	2.8	5470	8	US-10-342-887-1659	Sequence 1659, Ap	C 625	17	2.8	10326	8	US-60-438-000-36	Sequence 36, Appl
C 553	17	2.8	5484	6	US-09-659-671A-178	Sequence 178, App	C 626	17	2.8	10433	8	US-10-311-455-352	Sequence 352, Appl
C 554	17	2.8	5532	8	US-10-311-455-1231	Sequence 1231, Ap	C 627	17	2.8	10562	6	US-09-724-676-26095	Sequence 26095, A
C 555	17	2.8	5576	9	US-10-144-771-19483	Sequence 19483, A	C 628	17	2.8	10562	6	US-09-724-676A-26095	Sequence 26095, A
C 556	17	2.8	5576	9	US-60-452-680-8054	Sequence 8054, Ap	C 629	17	2.8	10655	6	US-09-949-016-13868	Sequence 13868, A
C 557	17	2.8	5576	9	US-60-453-135-4734	Sequence 4734, Ap	C 630	17	2.8	10696	6	US-09-949-002-679	Sequence 679, App
C 558	17	2.8	5735	8	US-10-257-166-148	Sequence 148, App	C 631	17	2.8	10696	6	US-09-949-002-735	Sequence 736, App
C 559	17	2.8	5758	8	US-10-311-455-1640	Sequence 1640, Ap	C 632	17	2.8	11050	9	US-09-949-016-14815	Sequence 14815, A
C 560	17	2.8	5912	8	US-10-311-455-1640	Sequence 575, App	C 633	17	2.8	11100	9	US-60-452-680-3356	Sequence 3356, Ap
C 561	17	2.8	5937	8	US-10-240-485-95	Sequence 95, Appl	C 634	17	2.8	11103	9	US-60-452-680-3036	Sequence 3036, Ap
C 562	17	2.8	5945	8	US-10-311-455-575	Sequence 58, Appl	C 635	17	2.8	11211	5	US-09-949-016-13351	Sequence 13251, A
C 563	17	2.8	5993	1	PCT-US02-37431-1	Sequence 1, Appl	C 636	17	2.8	11260	8	US-10-240-453-27	Sequence 27, Appl
C 564	17	2.8	5993	1	US-10-301-822-1	Sequence 1, Appl	C 637	17	2.8	11285	9	US-60-452-680-3359	Sequence 3359, Ap
C 565	17	2.8	6015	9	US-60-453-135-7058	Sequence 7058, Ap	C 638	17	2.8	11288	9	US-60-452-680-3037	Sequence 3037, Ap
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C 567	17	2.8	6032	8	US-10-311-455-1045	Sequence 1045, Ap	C 640	17	2.8	11386	8	US-10-240-453-113	Sequence 113, App
C 568	17	2.8	6035	8	US-10-311-455-1498	Sequence 1498, Ap	C 641	17	2.8	11392	5	US-09-949-016-17084	Sequence 17084, A
C 569	17	2.8	6079	8	US-10-311-455-231	Sequence 231, App	C 642	17	2.8	12237	8	US-10-311-455-1358	Sequence 2331, Ap
C 570	17	2.8	6201	8	US-10-311-455-1447	Sequence 1447, Ap	C 643	17	2.8	12705	8	US-10-311-455-122	Sequence 122, App
C 571	17	2.8	6201	8	US-10-311-455-470	Sequence 470, App	C 644	17	2.8	12763	8	US-10-311-455-276	Sequence 276, App
C 572	17	2.8	6300	5	US-09-949-016-13803	Sequence 13803, A	C 645	17	2.8	13249	8	US-10-311-455-89	Sequence 89, Appl
C 573	17	2.8	6408	8	US-10-311-455-1960	Sequence 1960, Ap	C 646	17	2.8	13420	8	US-10-311-455-889	Sequence 889, App
C 574	17	2.8	6408	8	US-10-311-455-1094	Sequence 1094, Ap	C 647	17	2.8	13427	8	US-10-311-455-1899	Sequence 1899, Ap
C 575	17	2.8	6412	8	US-10-311-455-1883	Sequence 1883, Ap	C 648	17	2.8	13449	8	US-10-311-455-1358	Sequence 1358, Ap
C 576	17	2.8	6442	8	US-10-311-455-1365	Sequence 1365, Ap	C 649	17	2.8	13449	8	US-10-311-455-1358	Sequence 1358, Ap
C 577	17	2.8	6631	8	US-10-240-453-213	Sequence 213, App	C 650	17	2.8	13574	8	US-10-311-455-1280	Sequence 1290, Ap
C 578	17	2.8	6631	8	US-10-240-453-213	Sequence 163, Appl	C 651	17	2.8	14241	5	US-09-949-016-13869	Sequence 13869, A
C 579	17	2.8	6712	8	US-10-311-455-663	Sequence 663, App	C 652	17	2.8	14253	8	US-10-311-455-1467	Sequence 1467, Ap
C 580	17	2.8	6740	8	US-10-311-455-1120	Sequence 1120, Ap	C 653	17	2.8	15399	8	US-10-311-455-1487	Sequence 1487, Ap
C 581	17	2.8	6866	8	US-10-311-455-639	Sequence 639, App	C 654	17	2.8	15399	8	US-10-240-485-177	Sequence 177, App
C 582	17	2.8	6912	8	US-10-240-453-246	Sequence 246, App	C 655	17	2.8	15518	8	US-10-311-455-2145	Sequence 2145, Ap
C 583	17	2.8	6934	8	US-10-311-455-1364	Sequence 1364, Ap	C 656	17	2.8	15674	8	US-10-240-485-30	Sequence 30, Appl
C 584	17	2.8	6988	8	US-10-311-455-2413	Sequence 2413, Ap	C 657	17	2.8	15674	8	US-10-311-455-336	Sequence 336, Appl
C 585	17	2.8	7069	8	US-10-311-455-1326	Sequence 1326, Ap	C 658	17	2.8	15704	5	US-09-949-016-17201	Sequence 17201, A
C 586	17	2.8	7108	8	US-10-257-166-78	Sequence 78, Appl	C 659	17	2.8	15782	8	US-10-240-453-9	Sequence 9, Appl
C 587	17	2.8	7143	8	US-10-311-455-955	Sequence 955, App	C 660	17	2.8	15861	8	US-10-311-455-498	Sequence 498, App
C 588	17	2.8	7317	8	US-10-240-453-47	Sequence 47, Appl	C 661	17	2.8	16167	8	US-10-240-485-81	Sequence 81, Appl
C 589	17	2.8	7359	8	US-10-311-455-1835	Sequence 1835, Ap	C 662	17	2.8	16167	8	US-10-311-455-1055	Sequence 1055, Ap
C 590	17	2.8	7498	8	US-10-311-455-229	Sequence 229, App	C 663	17	2.8	16170	8	US-10-311-455-1242	Sequence 1242, Ap
C 591	17	2.8	7498	8	US-10-311-455-229	Sequence 230, App	C 664	17	2.8	16724	8	US-10-240-485-89	Sequence 89, Appl
C 592	17	2.8	7531	9	US-60-452-680-11738	Sequence 11738, A	C 665	17	2.8	16724	8	US-10-311-455-1063	Sequence 1063, Ap
C 593	17	2.8	7531	9	US-60-452-680-11738	Sequence 7351, Ap	C 666	17	2.8	16724	8	US-10-311-455-1063	Sequence 1063, Ap
C 594	17	2.8	7644	8	US-10-311-455-503	Sequence 503, App	C 667	17	2.8	17203	5	US-09-949-016-13864	Sequence 13864, A
C 595	17	2.8	8131	8	US-10-240-454-22	Sequence 22, Appl	C 668	17	2.8	17203	5	US-10-311-455-1456	Sequence 1456, Ap
C 596	17	2.8	8131	8	US-10-311-455-870	Sequence 870, Appl	C 669	17	2.8	17419	8	US-10-240-453-111	Sequence 111, App
C 597	17	2.8	8254	8	US-10-311-455-837	Sequence 837, App	C 670	17	2.8	17721	8	US-10-311-455-1267	Sequence 1267, Ap
C 598	17	2.8	8254	8	US-10-311-455-838	Sequence 838, App	C 671	17	2.8	18512	8	US-10-311-455-1701	Sequence 1701, Ap
C 599	17	2.8	8543	8	US-10-240-453-18	Sequence 18, Appl	C 672	17	2.8	18512	8	US-10-311-455-950	Sequence 950, App
C 600	17	2.8	8588	8	US-10-240-453-200	Sequence 200, App	C 673	17	2.8	19974	5	US-09-949-016-15267	Sequence 15267, A
C 601	17	2.8	8616	9	US-60-452-680-3352	Sequence 3352, Ap	C 674	17	2.8	21537	5	US-10-311-455-1972	Sequence 1972, Ap
C 602	17	2.8	8727	9	US-60-452-680-3355	Sequence 3355, Ap	C 675	17	2.8	22143	5	US-09-949-016-15983	Sequence 15983, A
C 603	17	2.8	8801	9	US-60-452-680-3353	Sequence 3353, Ap	C 676	17	2.8	22289	5	US-09-947-911-8	Sequence 8, Appl
C 604	17	2.8	8912	9	US-60-452-680-3357	Sequence 3357, Ap	C 677	17	2.8	22965	5	US-09-949-016-15862	Sequence 15862, A
C 605	17	2.8	8943	8	US-10-257-166-48	Sequence 48, Appl	C 678	17	2.8	24214	5	US-09-949-016-15551	Sequence 15551, A
C 606	17	2.8	9087	5	US-09-949-016-15158	Sequence 15158, A	C 679	17	2.8	24296	5	US-09-949-016-11823	Sequence 11823, A
C 607	17	2.8	9160	8	US-10-311-455-1937	Sequence 1937, Ap	C 680	17	2.8	24497	5	US-09-949-016-14753	Sequence 14753, A
C 608	17	2.8	9238	8	US-10-240-453-239	Sequence 239, App	C 681	17	2.8	24553	5	US-09-949-016-16901	Sequence 16901, A

C 682	17	2.8	25001	8	US-10-017-161-2063	Sequence 2053, App	755	17	2.8	63760	5	US-09-949-016-14088	Sequence 14088, A
C 683	17	2.8	25111	5	US-09-949-016-12435	Sequence 12435, A	756	17	2.8	63824	1	PCT-US02-34679-1347	Sequence 347, App
C 684	17	2.8	25111	5	US-09-949-016-11944	Sequence 11944, A	757	17	2.8	63824	1	PCT-US02-34679-1348	Sequence 348, App
C 685	17	2.8	26116	5	US-09-949-016-16852	Sequence 16852, A	758	17	2.8	63824	8	US-10-282-174-347	Sequence 347, App
C 686	17	2.8	26116	5	US-09-949-016-16852	Sequence 16852, A	759	17	2.8	63824	8	US-10-282-174-348	Sequence 348, App
C 687	17	2.8	26314	5	PCT-US02-14877A-6	Sequence 6, App1	760	17	2.8	64171	5	US-09-949-016-11431	Sequence 1431, A
C 688	17	2.8	26328	6	US-09-578-900A-6	Sequence 6, App1	761	17	2.8	64171	5	US-09-949-016-11432	Sequence 1432, A
C 689	17	2.8	26928	6	US-10-240-851-6	Sequence 6, App1	762	17	2.8	64489	5	US-09-949-016-11766	Sequence 11766, A
C 690	17	2.8	27893	8	US-10-017-161-757	Sequence 757, App	763	17	2.8	65702	5	US-09-949-016-11766	Sequence 11766, A
C 692	17	2.8	28494	5	US-09-949-016-13200	Sequence 13200, A	764	17	2.8	65966	5	US-09-949-016-11752	Sequence 11752, A
C 693	17	2.8	28555	5	US-09-949-016-13106	Sequence 13106, A	765	17	2.8	67191	1	PCT-US02-41414-1421	Sequence 1421, A
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C 695	17	2.8	31074	5	US-09-949-016-12195	Sequence 12195, A	767	17	2.8	67589	8	US-10-144-779-196	Sequence 196, App
C 696	17	2.8	31075	5	US-09-949-016-15628	Sequence 15628, A	768	17	2.8	68035	5	US-09-949-016-16219	Sequence 16219, A
C 697	17	2.8	31111	5	US-09-949-016-15628	Sequence 15628, A	769	17	2.8	69924	5	US-09-949-016-15367	Sequence 15367, A
C 698	17	2.8	31355	5	US-09-949-016-15548	Sequence 15548, A	770	17	2.8	70313	6	US-09-949-002-714	Sequence 714, App
C 699	17	2.8	33155	5	US-09-949-016-15421	Sequence 15421, A	771	17	2.8	72208	8	US-10-144-779-26	Sequence 26, App1
C 700	17	2.8	33624	5	US-09-949-016-15301	Sequence 15301, A	772	17	2.8	72332	1	PCT-US02-41414-1070	Sequence 1070, App
C 701	17	2.8	35058	5	US-09-949-016-12607	Sequence 12607, A	773	17	2.8	72332	1	PCT-US02-41414-1070	Sequence 1070, App
C 702	17	2.8	35059	5	US-09-949-016-13831	Sequence 13831, A	774	17	2.8	72332	1	PCT-US02-41414-1070	Sequence 1070, App
C 703	17	2.8	35425	8	US-10-017-161-2429	Sequence 2429, App	775	17	2.8	72455	5	US-09-949-016-13793	Sequence 13793, A
C 704	17	2.8	35801	6	US-09-949-004-659	Sequence 659, App	776	17	2.8	73334	8	US-10-311-455-2097	Sequence 2097, App
C 705	17	2.8	36156	5	US-09-949-016-12128	Sequence 12128, A	777	17	2.8	73334	8	US-10-311-455-2097	Sequence 2097, App
C 706	17	2.8	36156	5	US-09-949-016-13261	Sequence 13261, A	778	17	2.8	74527	5	US-09-949-016-12339	Sequence 12339, A
C 707	17	2.8	38503	5	US-09-949-016-17257	Sequence 17257, A	779	17	2.8	74527	5	US-09-949-016-12339	Sequence 12339, A
C 708	17	2.8	38918	8	US-10-017-161-2049	Sequence 2049, App	780	17	2.8	74924	5	US-09-949-016-15545	Sequence 15545, A
C 709	17	2.8	38954	5	US-09-949-016-12292	Sequence 12292, A	781	17	2.8	74924	5	US-09-949-016-15545	Sequence 15545, A
C 710	17	2.8	39715	5	US-09-949-016-12454	Sequence 12454, A	782	17	2.8	76482	9	US-60-449-016-15896	Sequence 15896, A
C 711	17	2.8	41322	1	PCT-US02-39183-13	Sequence 13, App1	783	17	2.8	77586	5	US-09-949-016-13220	Sequence 13220, A
C 712	17	2.8	41772	5	US-09-949-016-15888	Sequence 15888, A	784	17	2.8	77586	5	US-09-949-016-13220	Sequence 13220, A
C 713	17	2.8	41941	5	US-09-949-016-17380	Sequence 17380, A	785	17	2.8	77808	8	US-10-144-779-181	Sequence 181, App
C 714	17	2.8	43591	8	US-10-144-779-24	Sequence 24, App1	786	17	2.8	78708	8	US-10-144-779-181	Sequence 181, App
C 715	17	2.8	44715	9	US-09-949-016-16353	Sequence 16353, A	787	17	2.8	78708	8	US-10-144-779-181	Sequence 181, App
C 716	17	2.8	45157	9	US-60-449-629-883	Sequence 883, App	788	17	2.8	78757	6	US-09-949-004-652	Sequence 652, App
C 717	17	2.8	45323	5	US-09-949-016-16142	Sequence 16142, A	789	17	2.8	78810	5	US-09-949-016-16198	Sequence 16198, A
C 718	17	2.8	45365	5	US-09-949-016-17007	Sequence 17007, A	790	17	2.8	81819	5	US-09-949-016-16661	Sequence 16661, A
C 719	17	2.8	45456	5	US-09-949-016-17007	Sequence 17007, A	791	17	2.8	83120	1	PCT-US02-40717-20	Sequence 20, App1
C 720	17	2.8	45684	5	US-09-949-016-16539	Sequence 16539, A	792	17	2.8	84587	5	US-09-949-016-15733	Sequence 15733, A
C 721	17	2.8	46805	6	US-09-949-002-585	Sequence 585, App	793	17	2.8	84587	5	US-09-949-016-15733	Sequence 15733, A
C 722	17	2.8	47443	1	PCT-US02-41414-1346	Sequence 1346, App	794	17	2.8	84587	5	US-09-949-016-15733	Sequence 15733, A
C 723	17	2.8	47443	1	PCT-US02-41414-1346	Sequence 1346, App	795	17	2.8	84587	5	US-09-949-016-15733	Sequence 15733, A
C 724	17	2.8	48039	6	US-09-949-002-785	Sequence 785, App	796	17	2.8	87617	5	US-09-949-016-16551	Sequence 16551, A
C 725	17	2.8	48318	5	US-09-949-016-15990	Sequence 15990, A	797	17	2.8	90925	6	US-09-949-002-693	Sequence 623, App
C 726	17	2.8	48920	5	US-09-949-016-15717	Sequence 15717, A	798	17	2.8	90925	6	US-09-949-002-693	Sequence 623, App
C 727	17	2.8	49212	5	US-09-949-016-11954	Sequence 11954, A	799	17	2.8	90925	6	US-09-949-002-693	Sequence 623, App
C 728	17	2.8	49220	5	US-09-949-016-12494	Sequence 12494, A	800	17	2.8	91559	5	US-09-949-016-12581	Sequence 12581, A
C 729	17	2.8	50000	8	US-10-152-724-22	Sequence 22, App1	801	17	2.8	91559	5	US-09-949-016-12581	Sequence 12581, A
C 730	17	2.8	50612	5	US-09-949-016-95	Sequence 95, App1	802	17	2.8	92276	5	US-09-949-016-13701	Sequence 13701, A
C 731	17	2.8	50612	5	US-09-949-016-95	Sequence 95, App1	803	17	2.8	92276	5	US-09-949-016-13701	Sequence 13701, A
C 732	17	2.8	50797	5	US-09-949-016-16346	Sequence 16346, A	804	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 733	17	2.8	50797	5	US-09-949-016-16346	Sequence 16346, A	805	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 734	17	2.8	50850	5	US-09-949-016-15083	Sequence 15083, A	806	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 735	17	2.8	50850	5	US-09-949-016-15083	Sequence 15083, A	807	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 736	17	2.8	50850	5	US-09-949-016-15085	Sequence 15085, A	808	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 737	17	2.8	51281	1	PCT-US02-41414-1391	Sequence 1391, App	809	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 738	17	2.8	51281	1	PCT-US02-41414-1391	Sequence 1391, App	810	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 739	17	2.8	52314	5	US-09-949-016-15362	Sequence 15362, A	811	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 740	17	2.8	52523	5	US-09-949-016-14622	Sequence 14622, A	812	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 741	17	2.8	52523	5	US-09-949-016-13948	Sequence 13948, A	813	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 742	17	2.8	52523	5	US-09-949-016-12221	Sequence 12221, A	814	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 743	17	2.8	53915	5	US-09-949-016-12730	Sequence 12730, A	815	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 744	17	2.8	53924	5	US-09-949-016-12730	Sequence 12730, A	816	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 745	17	2.8	53924	5	US-09-949-016-12730	Sequence 12730, A	817	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 746	17	2.8	53924	5	US-09-949-016-12730	Sequence 12730, A	818	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 747	17	2.8	54711	5	US-09-949-016-12948	Sequence 12948, A	819	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 748	17	2.8	54711	5	US-09-949-016-12948	Sequence 12948, A	820	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 749	17	2.8	57002	5	US-09-949-016-13191	Sequence 13191, A	821	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 750	17	2.8	58014	5	US-09-949-016-16667	Sequence 16667, A	822	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 751	17	2.8	60003	5	US-09-949-016-17448	Sequence 17448, A	823	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 752	17	2.8	60003	5	US-09-949-016-12464	Sequence 12464, A	824	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 753	17	2.8	60589	5	US-09-949-016-13823	Sequence 13823, A	825	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 754	17	2.8	63658	5	US-09-949-016-13338	Sequence 13338, A	826	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A
C 755	17	2.8	63760	5	US-09-949-016-14087	Sequence 14087, A	827	17	2.8	94095	5	US-09-949-016-12063	Sequence 12063, A

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c 829	17	2.8 111235	5	US-09-949-016-15328	Sequence 15328, A	c 902	17	2.8 527827	5	US-09-947-911-277	Sequence 277, App
830	17	2.8 112112	5	US-09-949-016-15639	Sequence 15639, A	c 903	17	2.8 529622	5	US-09-949-016-14340	Sequence 14340, A
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c 834	17	2.8 114139	5	US-09-949-016-16536	Sequence 16536, A	c 907	17	2.8 529885	5	US-09-949-016-14344	Sequence 14344, A
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c 840	17	2.8 126237	5	US-09-949-016-16674	Sequence 16674, A	c 913	17	2.8 636160	5	US-09-947-911-21	Sequence 21, App1
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842	17	2.8 129658	5	US-09-949-016-17195	Sequence 17195, A	c 915	17	2.8 656960	5	US-09-947-911-231	Sequence 231, App
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c 847	17	2.8 137753	5	US-09-949-016-17404	Sequence 17404, A	c 920	17	2.8 678994	6	US-09-948-124-34	Sequence 34, App1
c 848	17	2.8 138693	5	US-09-949-016-16724	Sequence 16724, A	c 921	17	2.8 712580	6	US-09-949-004-489	Sequence 489, App
c 849	17	2.8 141248	5	US-09-949-016-12241	Sequence 12241, A	c 922	17	2.8 714525	6	US-09-949-004-633	Sequence 633, App
c 850	17	2.8 143248	5	US-09-949-016-16652	Sequence 16652, A	c 923	17	2.8 733217	5	US-09-947-911-106	Sequence 106, App
c 851	17	2.8 143550	5	US-09-949-016-14143	Sequence 14143, A	c 924	17	2.8 767677	5	US-09-949-016-12147	Sequence 12147, A
c 852	17	2.8 145928	5	US-09-949-016-15444	Sequence 15444, A	c 925	17	2.8 767677	5	US-09-949-016-17361	Sequence 17361, A
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c 855	17	2.8 160759	5	US-09-949-016-16514	Sequence 16514, A	c 928	17	2.8 818128	5	US-09-949-016-14348	Sequence 14348, A
c 856	17	2.8 163032	5	US-09-949-016-16515	Sequence 16515, A	c 929	17	2.8 818128	5	US-09-949-016-14349	Sequence 14349, A
c 857	17	2.8 174259	5	US-09-949-016-11968	Sequence 11968, A	c 930	17	2.8 818128	5	US-09-949-016-14350	Sequence 14350, A
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c 859	17	2.8 175561	7	US-10-235-192-48	Sequence 48, App1	c 932	17	2.8 818128	5	US-09-949-016-14352	Sequence 14352, A
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c 861	17	2.8 186959	5	US-09-949-016-13125	Sequence 13125, A	c 934	17	2.8 818128	5	US-09-949-016-14354	Sequence 14354, A
c 862	17	2.8 187136	5	US-09-949-016-17231	Sequence 17231, A	c 935	17	2.8 818128	5	US-09-949-016-14355	Sequence 14355, A
c 863	17	2.8 189560	5	US-09-949-016-17202	Sequence 17202, A	c 936	17	2.8 818128	5	US-09-949-016-14357	Sequence 14357, A
c 864	17	2.8 194537	5	US-09-949-016-12928	Sequence 12928, A	c 937	17	2.8 818128	5	US-09-949-016-14357	Sequence 14357, A
865	17	2.8 198632	5	US-09-949-016-12781	Sequence 12781, A	c 938	17	2.8 818128	5	US-09-949-016-14358	Sequence 14358, A
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c 867	17	2.8 201529	5	US-09-949-016-12740	Sequence 12740, A	c 940	17	2.8 818128	5	US-09-949-016-14360	Sequence 14360, A
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c 870	17	2.8 207493	8	US-10-277-116-5	Sequence 5, App1	c 943	17	2.8 818128	5	US-09-949-016-14364	Sequence 14364, A
c 871	17	2.8 211049	5	US-09-949-016-15770	Sequence 15770, A	c 944	17	2.8 818128	5	US-09-949-016-14365	Sequence 14365, A
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c 874	17	2.8 234884	5	US-09-949-016-16420	Sequence 16420, A	c 947	17	2.8 879306	5	US-09-949-016-14367	Sequence 14367, A
c 875	17	2.8 237510	5	US-09-949-016-14273	Sequence 14273, A	c 948	17	2.8 879306	5	US-09-947-911-194	Sequence 194, App
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878	17	2.8 246468	5	US-09-947-911-166	Sequence 166, App	c 951	17	2.8 1037984	6	US-09-948-124-96	Sequence 96, App1
879	17	2.8 247299	5	US-09-949-016-17590	Sequence 17590, A	c 952	17	2.8 1160003	5	US-09-947-911-238	Sequence 238, App
880	17	2.8 253345	5	US-09-949-016-12656	Sequence 12656, A	c 953	17	2.8 128267	5	US-09-947-911-120	Sequence 120, App
881	17	2.8 253364	5	US-09-949-016-13639	Sequence 13639, A	c 954	17	2.8 1342585	5	US-09-947-911-152	Sequence 152, App
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883	17	2.8 260286	5	US-09-949-016-17037	Sequence 17037, A	c 956	17	2.8 1381124	5	US-09-947-911-182	Sequence 182, App
884	17	2.8 260293	5	US-09-949-016-12106	Sequence 12106, A	c 957	17	2.8 1722005	5	US-09-947-911-343	Sequence 343, App
c 885	17	2.8 267482	6	US-09-949-002-659	Sequence 659, App	c 958	17	2.8 1754382	1	PCT-US02-36123-6651	Sequence 6651, App
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c 889	17	2.8 305349	5	US-09-947-911-44	Sequence 44, App1	c 962	17	2.8 2267336	5	US-09-947-911-230	Sequence 230, App
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891	17	2.8 321022	5	US-09-949-016-14166	Sequence 14166, A	c 964	17	2.8 2323866	6	US-09-948-1124-64	Sequence 64, App1
c 892	17	2.8 323866	5	US-09-947-911-109	Sequence 109, App	c 965	17	2.8 242079	5	US-09-947-911-305	Sequence 305, App
c 893	17	2.8 360470	5	US-09-949-016-13173	Sequence 13173, A	c 966	17	2.8 2468502	5	US-09-947-911-336	Sequence 336, App
894	17	2.8 390890	5	US-09-949-016-14720	Sequence 14720, A	c 967	17	2.8 2593930	5	US-09-947-911-54	Sequence 54, App1
c 895	17	2.8 428116	5	US-09-947-911-220	Sequence 220, App	c 968	17	2.8 2682138	5	US-09-947-911-255	Sequence 255, App
896	17	2.8 463588	6	US-09-948-124-58	Sequence 58, App1	c 969	17	2.8 2813043	5	US-09-947-911-103	Sequence 103, App
897	17	2.8 465619	5	US-09-947-911-55	Sequence 55, App1	c 970	17	2.8 2865598	5	US-09-947-911-26	Sequence 26, App1
c 898	17	2.8 524032	5	US-09-949-016-16928	Sequence 16928, A	c 971	17	2.8 3227788	5	US-09-947-911-51	Sequence 51, App1
c 899	17	2.8 524032	5	US-09-949-016-16929	Sequence 16929, A	c 972	17	2.8 323406	5	US-09-947-911-244	Sequence 244, App
c 900	17	2.8 524032	5	US-09-949-016-16930	Sequence 16930, A	c 973	17	2.8 3928194	5	US-09-947-911-317	Sequence 317, App

C 974	17	2.8	40630925	5	US-09-947-911-3123	Sequence 323, App
C 975	17	2.8	46047723	5	US-09-947-916-2240	Sequence 240, App
C 976	17	2.8	4622116	5	US-09-947-916-288	Sequence 208, App
C 977	17	2.8	5401257	5	US-09-947-916-1209	Sequence 137, App
C 978	17	2.8	6853926	5	US-09-947-916-137	Sequence 16, App
C 979	17	2.8	7928029	5	US-09-947-916-16	Sequence 174, App
C 980	17	2.8	8616041	5	US-09-947-916-174	Sequence 97, App
C 981	17	2.8	8885655	5	US-09-947-916-97	Sequence 3054, A
C 982	16	2.6	25	5	US-09-965-570-13054	Sequence 15698, A
C 983	16	2.6	25	8	US-10-098-263B-19658	Sequence 13277, A
C 984	16	2.6	25	8	US-10-355-577-13277	Sequence 30011, A
C 985	16	2.6	25	8	US-10-355-577-30011	Sequence 333631, A
C 986	16	2.6	25	8	US-10-355-577-233631	Sequence 558735, A
C 987	16	2.6	25	8	US-10-355-577-558735	Sequence 246244, A
C 988	16	2.6	25	9	US-60-427-808-246244	Sequence 832363, A
C 989	16	2.6	25	9	US-60-427-808-832363	Sequence 253429, A
C 990	16	2.6	25	9	US-60-427-836-253429	Sequence 157221, A
C 991	16	2.6	50	6	US-09-912-293-157221	Sequence 1526, Ap
C 992	16	2.6	50	8	US-10-325-899-1526	Sequence 42656, A
C 993	16	2.6	51	6	US-09-912-293-42656	Sequence 26256, A
C 994	16	2.6	67	6	US-09-513-999C-26256	Sequence 18393, A
C 995	16	2.6	69	6	US-09-912-293-18393	Sequence 17489, A
C 996	16	2.6	81	6	US-09-513-999C-17489	Sequence 19954, A
C 997	16	2.6	90	6	US-09-513-999C-19954	Sequence 14776, A
C 998	16	2.6	92	6	US-09-513-999C-14776	Sequence 14776, A
C 999	16	2.6	101	8	US-10-298-197-7	Sequence 14776, A
C 1000	16	2.6	117	6	US-09-912-293-134776	Sequence 14776, A

## ALIGNMENTS

```

RESULT 1
US-09-856-725-2
; Sequence 2, Application US/09856725
; GENERAL INFORMATION:
; APPLICANT: Jun UKI et al.
; TITLE OF INVENTION: Nucleic acid fragments, recombinant vectors containing
; TITLE OF INVENTION: the same and method for promoting expression of structural
; TITLE OF INVENTION: genes using the same.
; FILE REFERENCE: 0760-0290P
; CURRENT APPLICATION NUMBER: US/09/856,725
; CURRENT FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 6
; SEQ ID NO 2
; LENGTH: 614
; TYPE: DNA
; ORGANISM: Oryza sativa
US-09-856-725-2

```

	Query Match	Similarity	Score	DB	Length	Mismatches	Indels	Gaps
Best Local Match	100.0%	100.0%	Pred. No. 1.2e-305		614	0	0	0
Matches	614	Conservative	0	Mismatches	0	Indels	0	Gaps
QY	1	CCGGCCACGGGAAAGGCCCCCAAGTTACATCCGCAAGGTTCCGACCCCTTCTCCTTAATCT	60					
Db	1	CCGCCACGCGGAAGCGCCCCCAAGTTCATCCGCAAGGTTCCGACCCCTTCTCCTTAATCT	60					
QY	61	ACTGCTCTTGGCTCTGCTCTTTTCTTTTGTGTGCCCTTCTGTGTGCGCTTGCATG	120					
Db	61	ACTGCTCTTGGCTCTGCTCTTTTCTTTTGTGTGCCCTTCTGTGTGCGGTTGCATG	120					
QY	121	AGCCCGAATTTGATCTGCTAGTGCACAGTACAGTACAGATACATGAAACGATCTGGAAT	180					
Db	121	AGCCCGAATTTGATCTGCTAGTGCACAGTACAGTACAGATACATGAAACGATCTGGAAT	180					
QY	181	TCTGATTAATTAAGAAAAATAAAGAGGTAGTACACAAGATTGGAATATCTTCTTATCAA	240					
Db	181	TCTGATTAATTAAGAAAAATAAAGAGGTAGTACACAAGATTGGAATATCTTCTTATCAA	240					
QY	241	GATTGCTATTAATGCTTGGCCATTTCTTGTTGACCCCAAGTACTCTTTGAATCTAAG	300					
Db	241	GATTGCTATTAATGCTTGGCCATTTCTTGTTGACCCCAAGTACTCTTTGAATCTAAG	300					

[illegible]

	/	TITLE OF INVENTION:	Nucleic acid fragments, recombinant vectors containing
	/	TITLE OF INVENTION:	The same and method for promoting expression of structural
	/	TITLE OF INVENTION:	genes using the same.
	/	FILE REFERENCE:	0760-0290P
	/	CURRENT APPLICATION NUMBER:	US/09/856,725
	/	CURRENT FILING DATE:	2001-05-25
	/	NUMBER OF SEQ ID NOS:	6
	/	SEQ ID NO 1	
	/	LENGTH:	540
	/	TYPE:	DNA
	/	ORGANISM:	Oryza sativa
	/	US-09-856-725-1	
Qy		Query Match	87.9%; Score 540; DB 6; Length 540;
		Best Local Similarity	100.0%; Pred. No. 1,5e+267;
		Matches 540; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
Qy	38	GTTGGAGACCCCTTCCTTATCTACTGCTGTGGCTTGCTGCTTTCTTTCTTGGTGC	97
Db	1	GTTGGAGACCCCTTCCTTAATCTACTCGCTTGGCTGTGCTTTTCTTTGGTGC	60
Qy	98	TTTTCTGTGTGTGCCCTTTCGATGACGCCGAATTGATGTGCTAGTGCAAGTAGCTGAG	157
Db	61	TTTTCTGTGTGTGCCCTTTCGATGACGCCGAATTGATGTGCTAGTGCAAGTAGCTGAG	120
Qy	158	AATACACTGAAAGCATCTGGAATTTCTGATATTATGAAAAATAAGAGTAGTAGCAA	217
Db	121	AATACACTGAAAGCATCTGGAATTTCTGATATTATGAAAAATAAGAGTAGTAGCAA	180
Qy	218	GAAATGGAGATACCTTTCATCAAGATTGCTATTATCTGGCCATTCTTGTITGACC	277
Db	181	GAAATGGAGATACCTTTCATCAAGATTGCTATTATCTGGCCATTCTTGTITGACC	240
Qy	278	CAAGTACTCTTTGAATCTAAGATTGCTGTGTGTGATGTGGTGTGTGTGTTGTGCACCA	337
Db	241	CAAGTACTCTTTGAATCTAAGATTGCTGTGTGTGATGTGGTGTGTGTGTTGTGCACCA	300
Qy	338	AAAATCTTCATTAGCTAAAGAAGTAAATTTATTTAATACTGACCTACTAAAAATGTAGA	397
Db	301	AAAATCTTCATTAGCTAAAGAAGTAAATTTATTTAATACTGACCTACTAAAAATGTAGA	360
Qy	398	GTTTCTGTGTGTGTGTGTGTGCTGTGTGTGCACCAAAAATCTGATTGTAGAGTTTAT	457

Accession	Sequence	Position
Db	GTCTCTGAGTGATGATGCTTGTGTGACCAAAAACCTGATTTGATAGAGTTTTAT	4205
Qy	TTATTTATTAACCTGACCTACACAAATCTATTTGCTGATGCTGATATGCTGTATAC	5175
Db	TTATTTATTAACCTGACCTACACAAATCTATTTGCTGATGCTGATATGCTGTATAC	4805
Qy	TGAATGCAATGCTCTTCTCTTTGTTGTTCTTGATCTAACAGTGAGCTATGCAACAG	5775
Db	TGAATGCAATGCTCTTCTCTTTGTTGTTCTTGATCTAACAGTGAGCTATGCAACAG	5405

```

RESULT 3
US-10-369-493-28714/C
: Sequence 28714, Application US/10369493
: GENERAL INFORMATION:
: APPLICANT: Cao, Yongwei
: APPLICANT: Hinkle, Gregory J.
: APPLICANT: Slater, Steven C.
: APPLICANT: Goldman, Barry S.
: APPLICANT: Chen, Xianfeng
: TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
: FILE REFERENCE: 38-10(52052)B
: CURRENT APPLICATION NUMBER: US/10/369,493
: PRIOR FILING DATE: 2003-02-28
: PRIOR APPLICATION NUMBER: US 60/360,039
: NUMBER OF SEQ ID NOS: 47374
: SEQ ID NO 28714
: LENGTH: 758
: TYPE: DNA
: ORGANISM: Caenorhabditis elegans
US-10-369-493-28714

```

[illegible]

```

RESULT 4
US-10-144-771-42083
; Sequence 42083, Application US/10144771
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig
; TITLE OF INVENTION: HUMAN GENOME DISCOVERY SYSTEM AND USES THEREOF
; FILE REFERENCE: CL001321
; CURRENT APPLICATION NUMBER: US/10/144,771
; CURRENT FILING DATE: 2002-05-15
; NUMBER OF SEQ ID NOS: 47235
; SEQ ID NO 42083
; LENGTH: 486
; TYPE: DNA
; ORGANISM: HUMAN
US-10-144-771-42083

```

Query Match	3.4%	Score 21	DB 8	Length 486
Best Local Similarity	100.0%	Pred. No. 2.6		
Matches 21	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY	306	TGTGTGATGTGCGTGTGTGT	326	
Db	285	TGTGTGATGTGCGTGTGTGT	305	

RESULT 5  
US-09-949-002-7004/c  
; Sequence 7004, Application US/09949002  
; GENERAL INFORMATION:

```

? APPLICANT: VENTER, J. Craig et al.
? TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
? TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION
? TITLE OF INVENTION: AND USES THEREOF
? FILE REFERENCE: CL000790
? CURRENT APPLICATION NUMBER: US/09/949,002
? CURRENT FILING DATE: 2000-01-28
? PRIOR APPLICATION NUMBER: 60/231,401
? PRIOR FILING DATE: 2000-09-08
? NUMBER OF SEQ ID NOS: 10823
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 7004
? LENGTH: 601
? TYPE: DNA
? ORGANISM: Human
US-09-949-002-7004

```

Query Match	3.4%;	Score 21;	DB 6;	Length 601;
Best Local Similarity	100.0%;	Pred. No. 2.6;		
Matches	21;	Conservative 0;	Mismatches 0;	Indels 0; Gaps 0;
QY	446	TAGAGTTTATTATTATTATT	466	
Db	467	TAGAGTTTATTATTATTATT	447	

RESULT 6  
 US-09-949-002-7005/c  
 ; Sequence 7005, Application US/09949002  
 ; GENERAL INFORMATION:  
 ; APPLICANT: VENTER, J. Craig et al.  
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
 ; WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION  
 ; TITLE OF INVENTION:  
 ; FILE REFERENCE: CLO00790  
 ; CURRENT APPLICATION NUMBER: US/09/949,002  
 ; CURRENT FILING DATE: 2000-01-28  
 ; PRIOR APPLICATION NUMBER: 60/231,401  
 ; PRIOR FILING DATE: 2000-09-08  
 ; NUMBER OF SEQ ID NOS: 10823  
 ; SOFTWARE: FASTSEQ for Windows Version 4.0  
 ; SEQ ID NO 7005  
 ; LENGTH: 601  
 ; TYPE: DNA  
 ; ORGANISM: Human  
 US-09-949-002-7005

	Query Match	3.4%;	Score 21;	DB 6;	Length 601;
	Best Local Similarity	100.0%;	Pred. No. 2.6;		
Matches	21; Conservative	0;	Mismatches	0;	Gaps 0;
Oy	TAGACTTTTATTAATTATT	466			
D8					
	191 TAGAGTTTTTATTAATT	171			

```

RESULT 7
US-10-144-771-26463
; Sequence 26463, Application US/10144771
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig
; TITLE OF INVENTION: HUMAN GENOME DISCOVERY SYSTEM AND USES THEREOF
; FILE REFERENCE: CL001321
; CURRENT APPLICATION NUMBER: US/10/144,771
; CURRENT FILING DATE: 2002-05-15
; NUMBER OF SEQ ID NOS: 47235
; SEQ ID NO 26463
; LENGTH: 892
; TYPE: DNA
; ORGANISM: HUMAN
US-10-144-771-26463

```

Query Match 3.4%; Score 21; DB 8; Length 892;

Best Local Similarity 100.0%; Pred. No. 2.6;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 306 TGTGTGATGTGTGTGTGT 326  
|||||  
Db 584 TGTGTGATGTGTGTGTGT 604

## RESULT 8

US-09-949-002-602/c  
; Sequence 602, Application US/09949002  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION  
; FILE REFERENCE: C1000790  
; CURRENT APPLICATION NUMBER: US/09/949,002  
; CURRENT FILING DATE: 2000-01-28  
; PRIOR APPLICATION NUMBER: 60/231,401  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 10823  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 602  
; LENGTH: 37531  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(37531)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-002-602

Query Match 3.4%; Score 21; DB 6; Length 37531;  
Best Local Similarity 100.0%; Pred. No. 2.5;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 446 TAGAGTTTATTATTATTATT 466  
|||||  
Db 22208 TAGAGTTTATTATTATTATT 22188

RESULT 9  
US-09-949-002-764/c  
; Sequence 764, Application US/09949002  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH INFLAMMATORY AUTOIMMUNE DISEASE, METHODS OF DETECTION  
; FILE REFERENCE: C1000790  
; CURRENT APPLICATION NUMBER: US/09/949,002  
; CURRENT FILING DATE: 2000-01-28  
; PRIOR APPLICATION NUMBER: 60/231,401  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 10823  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 764  
; LENGTH: 37531  
; TYPE: DNA  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(37531)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-949-002-764

Query Match 3.4%; Score 21; DB 6; Length 37531;  
Best Local Similarity 100.0%; Pred. No. 2.5;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 22207 TAGAGTTTATTATTATTATT 22187

RESULT 10  
US-60-288-292-21059/c  
; Sequence 21059, Application US/60288292  
; GENERAL INFORMATION:  
; APPLICANT: Glenn, Matthew  
; APPLICANT: Norris, Michael G  
; TITLE OF INVENTION: Compounds isolated from forage plants  
; TITLE OF INVENTION: and methods for their use.  
; FILE REFERENCE: 1058P  
; CURRENT APPLICATION NUMBER: US/60/288,292  
; CURRENT FILING DATE: 2001-05-02  
; NUMBER OF SEQ ID NOS: 49762  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 21059  
; LENGTH: 205  
; TYPE: DNA  
; ORGANISM: Festuca arundinaceae  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)...(205)  
; OTHER INFORMATION: n = A,T,C or G  
US-60-288-292-21059

Query Match 3.1%; Score 19; DB 9; Length 205;  
Best Local Similarity 100.0%; Pred. No. 28;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 GACCCCTTCCTTAATCTA 61  
|||||  
Db 118 GACCCCTTCCTTAATCTA 100

RESULT 11  
US-60-141-233-45025/c  
; Sequence 45025, Application US/60141233  
; GENERAL INFORMATION:  
; APPLICANT: Byrum, Joseph R.  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(15877)A  
; CURRENT APPLICATION NUMBER: US/60/141,233  
; CURRENT FILING DATE: 1999-06-29  
; NUMBER OF SEQ ID NOS: 82359  
; SEQ ID NO 45025  
; LENGTH: 305  
; TYPE: DNA  
; ORGANISM: Zea mays  
US-60-141-233-45025

Query Match 3.1%; Score 19; DB 9; Length 305;  
Best Local Similarity 100.0%; Pred. No. 28;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 TAGACAAAGATTGGAGTA 229  
|||||  
Db 294 TAGACAAAGATTGGAGTA 276

RESULT 12  
US-10-144-771-31393  
; Sequence 31393, Application US/10144771  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig  
; TITLE OF INVENTION: HUMAN GENOME DISCOVERY SYSTEM AND USES THEREOF  
; FILE REFERENCE: C1001321  
; CURRENT APPLICATION NUMBER: US/10/144,771  
; CURRENT FILING DATE: 2002-05-15  
; NUMBER OF SEQ ID NOS: 47235  
; SEQ ID NO 31393  
; LENGTH: 365



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GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: April 3, 2003, 10:29:18 ; Search time 2125 Seconds

(without alignments)  
8408.999 Million cell updates/sec

Title: US-09-856-725-2

Perfect score: 614

Sequence: 1 ccgcgcacagcggagcgcgc.....ggacactctggtgcgcgca 614

Scoring table: OLIGO\_NUC

Gapop 60.0 , Gapext 60.0

Searched: 2054640 seqs, 14551402878 residues

Word size : 0

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Database :

GenEmbl:\*

1: gb\_ba:\*

2: gb\_htg:\*

3: gb\_in:\*

4: gb\_om:\*

5: gb\_ov:\*

6: gb\_pat:\*

7: gb\_ph:\*

8: gb\_pl:\*

9: gb\_pr:\*

10: gb\_ro:\*

11: gb\_ses:\*

12: gb\_sy:\*

13: gb\_un:\*

14: gb\_vl:\*

15: em\_ba:\*

16: em\_fun:\*

17: em\_hum:\*

18: em\_in:\*

19: em\_mu:\*

20: em\_om:\*

21: em\_or:\*

22: em\_ov:\*

23: em\_pal:\*

24: em\_ph:\*

25: em\_pl:\*

26: em\_ro:\*

27: em\_ses:\*

28: em\_un:\*

29: em\_vl:\*

30: em\_htg\_hum:\*

31: em\_htg\_inv:\*

32: em\_htg\_other:\*

33: em\_htg\_mus:\*

34: em\_htg\_pln:\*

35: em\_htg\_rod:\*

36: em\_htg\_mam:\*

37: em\_htg\_vrt:\*

38: em\_sy:\*

39: em\_higo\_hum:\*

40: em\_higo\_mus:\*

41: em\_higo\_other:\*

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	614	100.0	614	2 BD013225	BD013225 Nucleic a
2	614	100.0	614	3 BD010208	BD010208 Nucleic a
3	614	100.0	2799	6 AR005013	AR005013 Sequence
4	614	100.0	2799	6 AR037063	AR037063 Sequence
5	614	100.0	5871	8 AB001920	AB001920 Oryza sat
6	563	91.7	154137	8 AP003215	AP003215 Oryza sat
7	540	87.9	540	6 BD013234	BD013234 Nucleic a
8	540	87.9	540	23 BD010207	BD010207 Nucleic a
9	9.9	135295	8	AP003282	AP003282 Oryza sat
10	39	6.4	2990	8 R1CPHD2	D73411 Oryza sativ
11	39	6.4	3040	6 AR005011	AR005011 Sequence
12	39	6.4	3040	6 AR037062	AR037062 Sequence
13	39	6.4	3040	6 AR082616	AR082616 Sequence
14	25	4.1	172224	2 AC087149	AC087149 Mus muscu
15	25	4.1	190039	2 AC094071	AC094071 Rattus no
16	24	3.9	160341	9 AL161629	AL161629 Human DNA
17	24	3.9	179207	2 AC009900	AC009900 Homo sapi
18	23	3.7	2793	8 MZEPHD1	D73410 Zea mays mR
19	23	3.7	2804	6 AR005012	AR005012 Sequence
20	22	3.6	40457	3 AF039712	AF039712 Sequence
21	22	3.6	119617	2 AC121015	AC121015 Rattus no
22	22	3.6	144284	2 AC103087	AC103087 Rattus no
23	22	3.6	146602	9 CNS05TD5	AL356015 Human chr
24	22	3.6	148202	2 AC026493	AC026493 Homo sapi
25	22	3.6	150900	9 AC068075	AC068075 Homo sapi
26	22	3.6	155435	2 AC113846	AC113846 Rattus no
27	22	3.6	165713	2 AL681429	AL681429 Homo sapi
28	22	3.6	183650	9 CNS01DWA	AL136522 Human chr
29	22	3.6	190163	9 AL365402	AL365402 Human DNA
30	22	3.6	226233	10 AL731729	AL731729 Mouse DNA
31	22	3.6	226233	2 AC124520	AC124520 Mus muscu
32	22	3.6	257728	2 AC006846	AC006846 Caenorhab
33	21	3.4	305	11 AU047169	AU047169 Rattus no
34	21	3.4	488	4 AF375682	AF375682 Sus scrof
35	21	3.4	63197	2 AC020444	AC020444 Drosophil
36	21	3.4	67870	2 AC118699	AC118699 Mus muscu
37	21	3.4	68041	8 AC025814	AC025814 Arabidops
38	21	3.4	68378	2 AC113131	AC113131 Homo sapi
39	21	3.4	82529	9 AC093634	AC093634 Homo sapi
40	21	3.4	85637	9 AL391002	AL391002 Human DNA
41	21	3.4	110000	2 AC091454_2	Continuation (3 of
42	21	3.4	110000	2 AL672265_4	Continuation (5 of
43	21	3.4	126000	2 AC109739	AC109739 Rattus no
44	21	3.4	127007	10 AL627432	AL627432 Mouse DNA
45	21	3.4	130484	2 AC096109	AC096109 Rattus no
46	21	3.4	136037	9 AC004104	AC004104 Homo sapi
47	21	3.4	142811	2 AC111509	AC111509 Rattus no
48	21	3.4	146001	2 AC112747	AC112747 Rattus no
49	21	3.4	146412	2 AF130359	AF130359 Homo sapi
50	21	3.4	147003	2 AC120948	AC120948 Rattus no
51	21	3.4	147425	2 AC094576	AC094576 Rattus no
52	21	3.4	149886	3 AC149886	AC149886 Mus muscu
53	21	3.4	158405	10 MMHC310M6	AF109906 Mus muscu
54	21	3.4	159255	10 AF212831	AF212831 Homo sapi
55	21	3.4	162730	2 AC128071	AC128071 Rattus no
56	21	3.4	162737	2 AC007733	AC007733 Homo sapi
57	21	3.4	164628	2 CNS01DVU	AL155858 Human chr
58	21	3.4	167157	2 AC129272	AC129272 Rattus no
59	21	3.4	170670	2 AC117725	AC117725 Mus muscu
60	21	3.4	170670	2 AC121758	AC121758 Homo sapi
61	21	3.4	172280	2 AC098202	AC098202 Rattus no
62	21	3.4	172936	2 AC027154	AC027154 Mus muscu
63	21	3.4	173014	9 AL606500	AL606500 Human DNA
64	21	3.4	174098	2 AC115905	AC115905 Mus muscu
65	21	3.4	174503	9 AC005697	AC005697 Homo sapi

Pred. No. is the number of results predicted by chance to have a

65	C	67	21	3.4	174776	9	AL592546	Human DNA	139	20	3.3	110000	2	LMFLCHR32_20	Continuation (21 o
66	21	3.4	176221	2	AC109045	AC109045	Rattus no	140	20	3.3	110000	2	LMFLCHR36_12	Continuation (13 o	
68	21	3.4	176854	2	AC107796	AC107796	Mus muscu	141	20	3.3	110236	2	AC116032	AC116032 Dictyos	
69	21	3.4	177433	9	AC011747	AC011747	Homo sapi	142	20	3.3	111264	2	AC128775	AC128775 Rattus	
70	21	3.4	177720	2	AC110452	AC110452	Rattus no	143	20	3.3	111650	5	AC005215	AC005215 Homo	
71	21	3.4	178975	2	AP004989	AP004989	Oryza sat	144	20	3.3	113551	5	AL591213	AL591213 Zebraf	
72	21	3.4	179812	2	AC129999	AC129999	Rattus no	145	20	3.3	116739	2	AC131548	AC131548 Rattus	
73	21	3.4	180424	9	AC106860	AC106860	Homo sapi	146	20	3.3	118355	2	AC131548	AC131548 Rattus	
74	21	3.4	181502	2	AC107850	AC107850	Mus muscu	147	20	3.3	121047	2	AC095295	AC095295 Rattus	
75	21	3.4	183353	2	AC087071	AC087071	Homo sapi	148	20	3.3	121157	2	AC113745	AC113745 Rattus	
76	21	3.4	184566	2	AC125590	AC125590	Rattus no	149	20	3.3	122495	2	AC106699	AC106699 Rattus	
77	21	3.4	186449	2	AC111954	AC111954	Rattus no	150	20	3.3	123132	2	AC126387	AC126387 Homo	
78	21	3.4	189236	10	AL607030	AL607030	Mouse DNA	151	20	3.3	126809	2	AC124138	AC124138 Rattus	
79	21	3.4	193589	3	AC025370	AC025370	Homo sapi	152	20	3.3	129130	2	AC130810	AC130810 Rattus	
80	21	3.4	194335	3	AC007647	AC007647	Drosophi	153	20	3.3	129856	9	AC016620	AC016620 Medica	
81	21	3.4	196304	2	AC128889	AC128889	Rattus no	154	20	3.3	129938	9	AC008071	AC008071 Homo	
82	21	3.4	197063	2	AC129280	AC129280	Rattus no	155	20	3.3	130391	2	AC109079	AC109079 Rattus	
83	21	3.4	199653	3	AC011615	AC011615	Drosophi	156	20	3.3	135109	2	AC119373	AC119373 Rattus	
84	21	3.4	200491	9	AC007249	AC007249	Homo sapi	157	20	3.3	137353	2	AP005116	AP005116 Oryza	
85	21	3.4	201930	2	AL840624	AL840624	Mus muscu	158	20	3.3	137557	9	AC005909	AC005909 Homo	
86	21	3.4	204495	10	AL591884	AL591884	Mouse DNA	159	20	3.3	142227	2	AL162492	AL162492 Homo	
87	21	3.4	208804	2	AC117025	AC117025	Rattus no	160	20	3.3	143088	9	AC005684	AC005684 Homo	
88	21	3.4	210523	2	AL731694	AL731694	Mus muscu	161	20	3.3	144885	9	AP004819	AP004819 Oryza	
89	21	3.4	211308	2	AC094850	AC094850	Rattus no	162	20	3.3	145331	9	AC007877	AC007877 Homo	
90	21	3.4	215172	2	AC126983	AC126983	Rattus no	163	20	3.3	146310	9	AC118079	AC118079 Rattus	
91	21	3.4	220103	2	AC073781	AC073781	Mus muscu	164	20	3.3	147758	2	AC110343	AC110343 Rattus	
92	21	3.4	224790	2	AL806523	AL806523	Mus muscu	165	20	3.3	149042	2	AC110128	AC110128 Rattus	
93	21	3.4	225795	3	AE003713	AE003713	Drosophi	166	20	3.3	149271	2	AC112489	AC112489 Homo	
94	21	3.4	227363	2	AL592002	AL592002	Mus muscu	167	20	3.3	150651	2	AL157499	AL157499 Human	
95	21	3.4	230085	2	AC099426	AC099426	Rattus no	168	20	3.3	151243	2	AC094894	AC094894 Rattus	
96	21	3.4	233874	2	AC094763	AC094763	Rattus no	169	20	3.3	152053	2	AC022669	AC022669 Homo	
97	21	3.4	238478	10	AL663103	AL663103	Mouse DNA	170	20	3.3	152950	2	AC121067	AC121067 Rattus	
98	21	3.4	294639	2	AC094709	AC094709	Homo sapi	171	20	3.3	153602	2	AC012291	AC012291 Homo	
99	21	3.4	340000	9	HS21C013	HS21C013	Rattus no	172	20	3.3	154242	2	AC118799	AC118799 Rattus	
100	21	3.4	347253	9	AF363578	AF363578	Homo sapi	173	20	3.3	154645	2	AC111452	AC111452 Rattus	
101	21	3.4	347253	5	CCUAIEX1	CCUAIEX1	Rattus no	174	20	3.3	156880	2	AC127541	AC127541 Homo	
102	21	3.4	347253	11	AE005073	AE005073	Rattus no	175	20	3.3	157190	2	AC115331	AC115331 Rattus	
103	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	176	20	3.3	159413	2	AC007815	AC007815 Homo	
104	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	177	20	3.3	160262	3	AC005242	AC005242 Homo	
105	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	178	20	3.3	160562	2	AC098172	AC098172 Rattus	
106	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	179	20	3.3	162062	2	AC111445	AC111445 Rattus	
107	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	180	20	3.3	163137	2	AC095946	AC095946 Rattus	
108	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	181	20	3.3	163443	2	AC006280	AC006280 Rattus	
109	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	182	20	3.3	163783	2	AC127837	AC127837 Rattus	
110	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	183	20	3.3	163935	2	AC121751	AC121751 Rattus	
111	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	184	20	3.3	164490	2	AC102712	AC102712 Mus	
112	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	185	20	3.3	164958	2	AC092729	AC092729 Canis	
113	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	186	20	3.3	165543	2	AC128985	AC128985 Rattus	
114	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	187	20	3.3	167029	8	AP002540	AP002540 Oryza	
115	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	188	20	3.3	167136	2	AC110392	AC110392 Rattus	
116	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	189	20	3.3	167863	2	AL1590651	AL1590651 Homo	
117	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	190	20	3.3	168926	2	AC128358	AC128358 Rattus	
118	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	191	20	3.3	169101	2	AC115732	AC115732 Mus	
119	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	192	20	3.3	169427	2	AC107339	AC107339 Rattus	
120	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	193	20	3.3	169628	2	AC113502	AC113502 Mus	
121	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	194	20	3.3	169628	2	AC094703	AC094703 Rattus	
122	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	195	20	3.3	170553	2	AC105548	AC105548 Rattus	
123	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	196	20	3.3	170823	2	AC092294	AC092294 Rattus	
124	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	197	20	3.3	171151	2	AC120561	AC120561 Homo	
125	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	198	20	3.3	171517	9	AC093862	AC093862 Homo	
126	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	199	20	3.3	172195	2	AC111267	AC111267 Rattus	
127	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	200	20	3.3	175568	3	AC008142	AC008142 Homo	
128	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	201	20	3.3	175917	2	AC095835	AC095835 Rattus	
129	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	202	20	3.3	176019	2	AC0994704	AC0994704 Rattus	
130	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	203	20	3.3	176354	2	AC111568	AC111568 Rattus	
131	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	204	20	3.3	177263	2	AC040942	AC040942 Homo	
132	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	205	20	3.3	177327	2	AC131681	AC131681 Rattus	
133	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	206	20	3.3	177467	9	AC097510	AC097510 Homo	
134	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	207	20	3.3	178064	2	AC023311	AC023311 Homo	
135	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	208	20	3.3	178113	2	AC099516	AC099516 Homo	
136	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	209	20	3.3	178157	2	AC130436	AC130436 Homo	
137	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	210	20	3.3	179022	2	AC120924	AC120924 Rattus	
138	21	3.4	347253	11	HS0014Y1	HS0014Y1	Rattus no	211	20	3.3	179022	2	AC120924	AC120924 Rattus	

212	20	3.3	180109	2	AC125916	AC125916 Rattus no	285	19	3.1	17419	6	AX346196	AX346196 Sequence
213	20	3.3	181477	2	AC024590	AC024590 Homo sapi	286	19	3.1	21844	2	AC130395	AC130395 Rattus no
214	20	3.3	181843	2	AC115275	AC115275 Rattus no	287	19	3.1	26001	9	AC105444	AC105444 Homo sapi
215	20	3.3	182571	2	AC095873	AC095873 Rattus no	288	19	3.1	26226	2	AL136180	AL136180 Human DNA
216	20	3.3	183253	2	AC122536	AC122536 Mus muscu	289	19	3.1	28562	2	AC009103	AC009103 Homo sapi
217	20	3.3	183695	9	AC012450	AC012450 Homo sapi	290	19	3.1	30973	2	AC097974	AC097974 Rattus no
218	20	3.3	183930	2	AC105723	AC105723 Rattus no	291	19	3.1	33960	10	HAMBHC	L12104 Mesocricetu
219	20	3.3	183965	2	AC068764	AC068764 Homo sapi	292	19	3.1	35017	3	CEH12D21	CEH12D21 Human DNA
220	20	3.3	187277	9	AC022968	AC022968 Homo sapi	293	19	3.1	35578	2	AL663119	AL663119 Human DNA
221	20	3.3	187311	2	AC115653	AC115653 Rattus no	294	19	3.1	36128	2	CEM02B4	CEM02B4 Caenorhabdi
222	20	3.3	188464	9	AC096757	AC096757 Homo sapi	295	19	3.1	36429	3	U29380	U29380 Caenorhabdi
223	20	3.3	188674	2	AC114604	AC114604 Mus muscu	296	19	3.1	38700	3	CEB709A5	CEB709A5 Caenorhabdi
224	20	3.3	189994	2	AC113784	AC113784 Rattus no	297	19	3.1	39299	9	AP000362	AP000362 Homo sapi
225	20	3.3	190537	2	AC010757	AC010757 Homo sapi	298	19	3.1	41625	3	AF022973	AF022973 Caenorhab
226	20	3.3	191734	2	AC016560	AC016560 Homo sapi	299	19	3.1	43084	3	HSN80H12	HSN80H12 Human DNA
227	20	3.3	192083	2	AC015901	AC015901 Homo sapi	300	19	3.1	43374	2	CEM04B2	CEM04B2 Caenorhabdi
228	20	3.3	192861	8	ATC8RIV80	AL161584 Arabidops	301	19	3.1	43506	8	AF325198	AF325198 Triticum
229	20	3.3	193495	2	AC117043	AC117043 Rattus no	302	19	3.1	44284	2	AC138186	AC138186 Drosophila
230	20	3.3	194487	2	AL671894	AL671894 Mus muscu	303	19	3.1	44318	8	SPBC8B7	SPBC8B7 S.pombe
231	20	3.3	194539	2	AC125739	AC125739 Rattus no	304	19	3.1	44318	3	AF036698	AF036698 Caenorhab
232	20	3.3	195481	2	AC113303	AC113303 Mus muscu	305	19	3.1	44344	2	AC068378	AC068378 Homo sapi
233	20	3.3	195913	2	AC023458	AC023458 Homo sapi	306	19	3.1	44585	9	AL139336	AL139336 Human DNA
234	20	3.3	200822	9	AL591806	AL591806 Human DNA	307	19	3.1	49904	2	AC125982	AC125982 Rattus no
235	20	3.3	200823	2	AC102989	AC102989 Rattus no	308	19	3.1	52183	2	AC1113053	AC1113053 Mus muscu
236	20	3.3	204570	2	AC113498	AC113498 Mus muscu	309	19	3.1	57077	2	AC1119158	AC1119158 Mus muscu
237	20	3.3	205656	2	AC118009	AC118009 Mus muscu	310	19	3.1	58210	2	AC131254	AC131254 Homo sapi
238	20	3.3	205993	2	AC126285	AC126285 Rattus no	311	19	3.1	58210	2	AC131254	AC131254 Homo sapi
239	20	3.3	206177	9	AC008072	AC008072 Homo sapi	312	19	3.1	59496	2	AC115843	AC115843 Mus muscu
240	20	3.3	207197	2	AC124480	AC124480 Mus muscu	313	19	3.1	60385	9	AC009511	AC009511 Homo sapi
241	20	3.3	21285	2	AC120520	AC120520 Canis fam	314	19	3.1	61912	2	AC124232	AC124232 Homo sapi
242	20	3.3	214025	9	AC007882	AC007882 Homo sapi	315	19	3.1	62615	8	CEY54B2A	CEY54B2A Caenorhab
243	20	3.3	216438	2	AC096318	AC096318 Rattus no	316	19	3.1	63604	8	AP000381	AP000381 Arabidops
244	20	3.3	222831	2	AC127033	AC127033 Homo sapi	317	19	3.1	64071	2	AC084122	AC084122 Homo sapi
245	20	3.3	224092	2	AC093940	AC093940 Rattus no	318	19	3.1	64071	2	AC084122	AC084122 Homo sapi
246	20	3.3	224870	2	AC125320	AC125320 Mus muscu	319	19	3.1	64244	2	AC122212	AC122212 Mus muscu
247	20	3.3	227856	2	AC007908	AC007908 Homo sapi	320	19	3.1	66070	2	AC119239	AC119239 Mus muscu
248	20	3.3	228094	2	AC124736	AC124736 Mus muscu	321	19	3.1	67665	2	AC101324	AC101324 Mus muscu
249	20	3.3	229144	2	AC127288	AC127288 Mus muscu	322	19	3.1	68080	2	AC116955	AC116955 Dictyoste
250	20	3.3	234542	9	HUAC02041	AC002041 Human Chr	323	19	3.1	68171	2	AL158205	AL158205 Human DNA
251	20	3.3	235302	2	AC073784	AC073784 Mus muscu	324	19	3.1	69368	2	AC101500	AC101500 Mus muscu
252	20	3.3	239861	2	AC094785	AC094785 Rattus no	325	19	3.1	70841	2	AC004287	AC004287 Drosophila
253	20	3.3	242647	3	AE003727	AE003727 Drosophila	326	19	3.1	70997	2	AC101386	AC101386 Mus muscu
254	20	3.3	244717	2	AC094351	AC094351 Rattus no	327	19	3.1	71123	2	AC103643	AC103643 Mus muscu
255	20	3.3	268775	2	AC126266	AC126266 Mus muscu	328	19	3.1	72179	2	AC096066	AC096066 Rattus no
256	20	3.3	332152	2	AL807394	AL807394 Mus muscu	329	19	3.1	73635	2	AC100991	AC100991 Mus muscu
257	20	3.3	343732	2	AC124464	AC124464 Mus muscu	330	19	3.1	73986	2	AC124000	AC124000 Homo sapi
258	19	3.1	311	11	AU047772	AU047772 Rattus no	331	19	3.1	77164	2	AL133514	AL133514 Human DNA
259	19	3.1	514	3	NCA228560	AJ228560 Neotectali	332	19	3.1	77555	9	AL359738	AL359738 Human DNA
260	19	3.1	794	6	AX099426	AX099426 Sequence	333	19	3.1	80017	2	AC016368	AC016368 Human DNA
261	19	3.1	912	6	AX055170	AX055170 Sequence	334	19	3.1	83550	9	AL330918	AL330918 Human DNA
262	19	3.1	921	6	AX055300	AX055300 Sequence	335	19	3.1	84432	8	AC005850	AC005850 Arabidops
263	19	3.1	1476	9	BC028682	BC028682 Homo sapi	336	19	3.1	86827	3	PFMAL3P5	PFMAL3P5 Plasmodiu
264	19	3.1	1517	8	AY064142	AY064142 Arabidops	337	19	3.1	88176	2	AL390202_09	AL390202_09 Continuation (10 o
265	19	3.1	1627	9	AK093152	AK093152 Homo sapi	338	19	3.1	89104	9	AL357509	AL357509 Human DNA
266	19	3.1	1820	6	AK001950	AK001950 Homo sapi	339	19	3.1	89207	2	AC124098	AC124098 Mus muscu
267	19	3.1	2554	6	AX301211	AX301211 Sequence	340	19	3.1	89811	8	AC018849	AC018849 Arabidops
268	19	3.1	3289	8	CS1012550	AJ012550 Citrus cit	341	19	3.1	90571	2	AC106557	AC106557 Rattus no
269	19	3.1	3641	2	AC014885	AC014885 Drosophila	342	19	3.1	92464	5	AL606705	AL606705 Zebrafish
270	19	3.1	6179	6	AX251098	AX251098 Sequence	343	19	3.1	92611	9	AC006398	AC006398 Homo sapi
271	19	3.1	6179	6	AX344247	AX344247 Sequence	344	19	3.1	93173	2	AC094918	AC094918 Rattus no
272	19	3.1	6668	6	AX346598	AX346598 Sequence	345	19	3.1	93265	10	AP002736	AP002736 Mus muscu
273	19	3.1	7339	14	ECHEICORN	LO2971 Echovirus 2	346	19	3.1	93544	2	AC111617	AC111617 Rattus no
274	19	3.1	7339	14	S45208	S45208 polyprotein	347	19	3.1	93588	2	AC017187	AC017187 Drosophila
275	19	3.1	8325	10	AF108133	AF108133 Mus muscu	348	19	3.1	95432	8	ATT9E8	ATT9E8 Arabidops
276	19	3.1	10700	1	AE000645	AE000645 Helicobac	349	19	3.1	96079	9	HS717L17	HS717L17 Human DNA
277	19	3.1	11145	1	AE010606	AE010606 Fusobacte	350	19	3.1	98291	9	AC073538	AC073538 Homo sapi
278	19	3.1	11726	6	AX346965	AX346965 Sequence	351	19	3.1	98291	2	AC121723	AC121723 Rattus no
279	19	3.1	12269	6	AX251225	AX251225 Sequence	352	19	3.1	99036	2	AL672053	AL672053 Danio rer
280	19	3.1	13269	6	AX346312	AX346312 Sequence	353	19	3.1	100032	10	AE014180_3	AE014180_3 Continuation (4 of
281	19	3.1	13120	3	AF016431	AF016431 Caenorhab	354	19	3.1	100329	9	AC092177	AC092177 Homo sapi
282	19	3.1	14514	2	AC115610	AC115610 Dictyoste	355	19	3.1	101567	2	AL845510	AL845510 Danio rer
283	19	3.1	17419	6	AX277936	AX277936 Sequence	356	19	3.1	102992	2	AL591863	AL591863 Homo sapi
284	19	3.1	17419	6	AX323623	AX323623 Sequence	357	19	3.1	103463	2	AC121378	AC121378 Rattus no

C 358	19	3.1 106277	9	AC068792	AC068792 Homo sapi	C 431	19	3.1 151447	3	AC010122	AC010122 Drosophila
C 359	19	3.1 106977	9	HS9E21	AL008633 Human DNA	C 432	19	3.1 151605	2	AC011995	AC011995 Homo sapi
C 360	19	3.1 107243	10	AL663097	AL663097 Mouse DNA	C 433	19	3.1 157705	2	AC117900	AC117900 Rattus no
C 361	19	3.1 107706	9	AC064856	AC064856 Homo sapi	C 434	19	3.1 157705	2	AC123198	AC123198 Rattus no
C 362	19	3.1 110000	2	AC084053	Continuation (4 of	C 435	19	3.1 152106	2	AC023032	AC023032 Homo sapi
C 363	19	3.1 110000	2	AC118912	Continuation (3 of	C 436	19	3.1 152304	2	AC021743	AC021743 Homo sapi
C 364	19	3.1 110000	2	AC117408	Continuation (6 of	C 437	19	3.1 152928	2	AC111475	AC111475 Rattus no
C 365	19	3.1 110000	2	CEY11825	Continuation (20 of	C 438	19	3.1 153004	2	AP006754	AP006754 Homo sapi
C 366	19	3.1 110000	2	TMFLCHR5_19	Continuation (6 of	C 439	19	3.1 153169	2	AP001092	AP001092 Homo sapi
C 367	19	3.1 110307	9	AC116628	Continuation (6 of	C 440	19	3.1 153270	2	AC091661	AC091661 Homo sapi
C 368	19	3.1 111254	9	AC125491	AC125491 Homo sapi	C 441	19	3.1 153402	2	AC006278	AC006278 Homo sapi
C 369	19	3.1 111434	5	AL591144	AL591144 Zebrafish	C 442	19	3.1 153477	2	AC024615	AC024615 Homo sapi
C 370	19	3.1 111768	9	AC102981	AC102981 Rattus no	C 443	19	3.1 153657	2	AL808121	AL808121 Homo sapi
C 371	19	3.1 116305	2	AC106876	AC106876 Homo sapi	C 444	19	3.1 153686	2	AC024615	AC024615 Homo sapi
C 372	19	3.1 116585	2	AC097773	AC097773 Rattus no	C 445	19	3.1 153826	2	AC008396	AC008396 Homo sapi
C 373	19	3.1 117545	2	AC079410	AC079410 Homo sapi	C 446	19	3.1 154218	2	AC020663	AC020663 Homo sapi
C 374	19	3.1 118008	2	AC097941	AC097941 Homo sapi	C 447	19	3.1 154308	2	AC125898	AC125898 Homo sapi
C 375	19	3.1 118489	9	AP000766	AP000766 Homo sapi	C 448	19	3.1 154560	2	AC110406	AC110406 Rattus no
C 376	19	3.1 119175	9	AC111001	AC111001 Homo sapi	C 449	19	3.1 154966	2	AP001387	AP001387 Homo sapi
C 377	19	3.1 119321	2	AC105533	AC105533 Rattus no	C 450	19	3.1 155031	2	AC096500	AC096500 Rattus no
C 378	19	3.1 119468	2	AC120537	AC120537 Oryza sat	C 451	19	3.1 155213	2	HSJ1031J8	HSJ1031J8 Homo sapi
C 379	19	3.1 119779	10	AL663079	AL663079 Mouse DNA	C 452	19	3.1 155461	2	AC007493	AC007493 Homo sapi
C 380	19	3.1 120044	2	AL590096	AL590096 Human DNA	C 453	19	3.1 155729	2	CNS01DMN	CNS01DMN Homo sapi
C 381	19	3.1 120745	9	AL534945	AL534945 Human DNA	C 454	19	3.1 155847	2	AC090415	AC090415 Homo sapi
C 382	19	3.1 120745	9	AL534945	AL534945 Human DNA	C 455	19	3.1 156617	2	AC126216	AC126216 Rattus no
C 383	19	3.1 121012	9	AL137860	AL137860 Human DNA	C 456	19	3.1 156817	2	AC009406	AC009406 Homo sapi
C 384	19	3.1 121656	9	AL357054	AL357054 Human DNA	C 457	19	3.1 157144	2	AC018514	AC018514 Homo sapi
C 385	19	3.1 123500	14	US3466	US3466 Cydia pomon	C 458	19	3.1 157454	2	AP001462	AP001462 Homo sapi
C 386	19	3.1 124704	2	AL837520	AL837520 Mus muscu	C 459	19	3.1 157723	2	AC120989	AC120989 Homo sapi
C 387	19	3.1 125672	2	AC111350	AC111350 Rattus no	C 460	19	3.1 157979	2	CNS05TMD	CNS05TMD Homo sapi
C 388	19	3.1 126752	2	AP252826	AP252826 Homo sapi	C 461	19	3.1 157979	2	AC009835	AC009835 Homo sapi
C 389	19	3.1 127221	2	AC126310	AC126310 Rattus no	C 462	19	3.1 158127	2	AC105394	AC105394 Homo sapi
C 390	19	3.1 127677	2	AC102945	AC102945 Homo sapi	C 463	19	3.1 158217	2	AC094685	AC094685 Rattus no
C 391	19	3.1 127811	2	AC108375	AC108375 Homo sapi	C 464	19	3.1 158472	2	AC110612	AC110612 Homo sapi
C 392	19	3.1 128622	2	AC114968	AC114968 Homo sapi	C 465	19	3.1 158914	2	AC109257	AC109257 Homo sapi
C 393	19	3.1 129130	2	AC130810	AC130810 Homo sapi	C 466	19	3.1 160270	2	AC111569	AC111569 Homo sapi
C 394	19	3.1 129968	9	HS249F5	HS249F5 Human DNA	C 467	19	3.1 160498	2	AL805904	AL805904 Homo sapi
C 395	19	3.1 131318	2	AC018648	AC018648 Caenorhabd	C 468	19	3.1 160658	2	AC127214	AC127214 Rattus no
C 396	19	3.1 132990	8	AC018648	AC018648 Caenorhabd	C 469	19	3.1 161040	2	AL359894	AL359894 Human DNA
C 397	19	3.1 133154	2	AC120820	AC120820 Human DNA	C 470	19	3.1 161988	2	AC112954	AC112954 Homo sapi
C 398	19	3.1 133240	2	AC114322	AC114322 Homo sapi	C 471	19	3.1 162004	2	AC094793	AC094793 Homo sapi
C 399	19	3.1 133348	2	AC027021	AC027021 Homo sapi	C 472	19	3.1 162004	2	AC108412	AC108412 Homo sapi
C 400	19	3.1 133823	2	AC027021	AC027021 Homo sapi	C 473	19	3.1 162148	2	AC102495	AC102495 Homo sapi
C 401	19	3.1 133823	2	AC027021	AC027021 Homo sapi	C 474	19	3.1 162247	2	AC019845	AC019845 Homo sapi
C 402	19	3.1 134867	2	AC013788	AC013788 Homo sapi	C 475	19	3.1 162301	2	AC011023	AC011023 Homo sapi
C 403	19	3.1 134995	9	AL592156	AL592156 Human DNA	C 476	19	3.1 162346	2	AC121983	AC121983 Homo sapi
C 404	19	3.1 135209	9	HS42616	HS42616 Human DNA	C 477	19	3.1 162346	2	AC121983	AC121983 Homo sapi
C 405	19	3.1 135209	9	HS42616	HS42616 Human DNA	C 478	19	3.1 162346	2	AC121983	AC121983 Homo sapi
C 406	19	3.1 137506	9	AF069333	AF069333 Homo sapi	C 479	19	3.1 162361	2	AC023779	AC023779 Homo sapi
C 407	19	3.1 138376	9	AF069333	AF069333 Homo sapi	C 480	19	3.1 162732	2	CNS01DIW	CNS01DIW Homo sapi
C 408	19	3.1 138450	2	AC118531	AC118531 Rattus no	C 481	19	3.1 162782	2	AC112418	AC112418 Rattus no
C 409	19	3.1 138713	8	OSJN00150	OSJN00150 Homo sapi	C 482	19	3.1 162925	2	AC129310	AC129310 Homo sapi
C 410	19	3.1 139015	2	AL645743	AL645743 Oryza sat	C 483	19	3.1 163038	2	AC018528	AC018528 Homo sapi
C 411	19	3.1 139589	2	AC114880	AC114880 Rattus no	C 484	19	3.1 163038	2	AC091621	AC091621 Homo sapi
C 412	19	3.1 140000	9	AP001791	AP001791 Homo sapi	C 485	19	3.1 163077	2	AC091621	AC091621 Homo sapi
C 413	19	3.1 140012	10	AL671905	AL671905 Mouse DNA	C 486	19	3.1 163375	2	AC027777	AC027777 Homo sapi
C 414	19	3.1 140596	2	RN75P15	RN75P15 Homo sapi	C 487	19	3.1 163483	2	AC122659	AC122659 Homo sapi
C 415	19	3.1 140677	9	AC005922	AC005922 Homo sapi	C 488	19	3.1 163521	2	AC108040	AC108040 Homo sapi
C 416	19	3.1 142154	2	AC114012	AC114012 Oryza sat	C 489	19	3.1 163660	2	AC107045	AC107045 Homo sapi
C 417	19	3.1 142855	2	AC120724	AC120724 Rattus no	C 490	19	3.1 163852	2	AC098083	AC098083 Homo sapi
C 418	19	3.1 142979	9	AC000029	AC000029 Homo sapi	C 491	19	3.1 164162	2	AL845351	AL845351 Homo sapi
C 419	19	3.1 143405	2	AC062023	AC062023 Homo sapi	C 492	19	3.1 164499	2	AC092418	AC092418 Homo sapi
C 420	19	3.1 143512	2	AC087632	AC087632 Homo sapi	C 493	19	3.1 164735	2	AC090475	AC090475 Homo sapi
C 421	19	3.1 144107	2	AC010502	AC010502 Homo sapi	C 494	19	3.1 164764	2	AC102967	AC102967 Homo sapi
C 422	19	3.1 144858	2	AC105365	AC105365 Rattus no	C 495	19	3.1 165020	2	AC094130	AC094130 Homo sapi
C 423	19	3.1 145971	2	AC096698	AC096698 Rattus no	C 496	19	3.1 165020	2	CBY48C3A	CBY48C3A Homo sapi
C 424	19	3.1 145998	2	AL451078	AL451078 Homo sapi	C 497	19	3.1 165120	2	AC126747	AC126747 Homo sapi
C 425	19	3.1 146073	9	HS141D16	HS141D16 Homo sapi	C 498	19	3.1 165318	2	AC083860	AC083860 Homo sapi
C 426	19	3.1 146798	2	AC103616	AC103616 Homo sapi	C 499	19	3.1 165810	2	AC113324	AC113324 Homo sapi
C 427	19	3.1 146893	2	CNS08C9A	CNS08C9A Homo sapi	C 500	19	3.1 166361	2	AC120917	AC120917 Homo sapi
C 428	19	3.1 147615	2	AC128052	AC128052 Rattus no	C 501	19	3.1 166718	2	AL441992	AL441992 Human DNA
C 429	19	3.1 147615	2	AC128052	AC128052 Rattus no	C 502	19	3.1 167399	2	AC103385	AC103385 Homo sapi
C 430	19	3.1 149630	2	AC118294	AC118294 Rattus no	C 503	19	3.1 167399	2	AC103385	AC103385 Homo sapi

504	19	3.1.167758	2	AC110189	AC110189	Mus muscu	C 577	19	3.1.185097	2	AC023148	AC023148	Homo sapi
505	19	3.1.167872	2	AC129133	AC129133	Rattus no	578	19	3.1.185680	2	AC079738	AC079738	Homo sapi
506	19	3.1.168085	9	AC027687	AC027687	Homo sapi	579	19	3.1.185857	2	AC119608	AC119608	Rattus no
507	19	3.1.168334	2	AC121473	AC121473	Rattus no	580	19	3.1.186452	2	AC123796	AC123796	Mus muscu
508	19	3.1.168417	3	AC008187	AC008187	Drosophi1	581	19	3.1.187561	2	AC130850	AC130850	Rattus no
509	19	3.1.168800	2	AC009467	AC009467	Homo sapi	582	19	3.1.187887	2	AC119553	AC119553	Rattus no
510	19	3.1.168843	2	AC109602	AC109602	Oryza sat	583	19	3.1.187965	2	AL591889	AL591889	Homo sapi
511	19	3.1.168968	2	AC106979	AC106979	Rattus no	584	19	3.1.187998	2	AC129063	AC129063	Rattus no
512	19	3.1.169022	2	AC073460	AC073460	Homo sapi	585	19	3.1.188062	9	AL162731	AL162731	Human DNA
513	19	3.1.169389	2	AC130505	AC130505	Rattus no	586	19	3.1.188456	2	AC091165	AC091165	Homo sapi
514	19	3.1.169540	9	AC024288	AC024288	Homo sapi	587	19	3.1.188682	2	AC124825	AC124825	Mus muscu
515	19	3.1.169646	9	AL160265	AL160265	Human DNA	588	19	3.1.188717	2	CNS01DMR	AL138478	Human chr
516	19	3.1.170114	9	AC044790	AC044790	Homo sapi	589	19	3.1.189120	2	AC102105	AC102105	Mus muscu
517	19	3.1.170241	2	AC120635	AC120635	Rattus no	590	19	3.1.189352	2	AC001967	AC001967	Homo sapi
518	19	3.1.170600	2	AC117316	AC117316	Rattus no	591	19	3.1.189486	9	AC008733	AC008733	Homo sapi
519	19	3.1.170970	9	AL354707	AL354707	Human DNA	592	19	3.1.189721	2	AC115669	AC115669	Rattus no
520	19	3.1.171050	9	AC112232	AC112232	Homo sapi	593	19	3.1.190065	2	AC094728	AC094728	Rattus no
521	19	3.1.171187	2	AC116960	AC116960	Dicystoste	594	19	3.1.190405	2	AC126568	AC126568	Rattus no
522	19	3.1.171238	2	AC111440	AC111440	Rattus no	595	19	3.1.190802	2	AL177261	AL177261	Mus muscu
523	19	3.1.171270	2	AC121430	AC121430	Rattus no	596	19	3.1.191044	2	AC115216	AC115216	Rattus no
524	19	3.1.171477	9	AC026457	AC026457	Homo sapi	597	19	3.1.191366	2	AC115351	AC115351	Rattus no
525	19	3.1.171506	2	AC120322	AC120322	Rattus no	598	19	3.1.191377	9	AC018398	AC018398	Homo sapi
526	19	3.1.171564	2	AC113225	AC113225	Rattus no	599	19	3.1.191883	2	AC126956	AC126956	Rattus no
527	19	3.1.171629	3	AC007691	AC007691	Drosophi1	600	19	3.1.192389	9	AC007182	AC007182	Homo sapi
528	19	3.1.171709	2	AC120971	AC120971	Rattus no	601	19	3.1.192508	2	AL845369	AL845369	Danio rer
529	19	3.1.172148	2	AC073132	AC073132	Homo sapi	602	19	3.1.192578	5	AL732455	AL732455	Zebrafish
530	19	3.1.172164	2	AC079820	AC079820	Homo sapi	603	19	3.1.192822	2	AC123375	AC123375	Rattus no
531	19	3.1.172334	9	AC010650	AC010650	Homo sapi	604	19	3.1.193893	2	AL732612	AL732612	Mus muscu
532	19	3.1.172387	2	AC128718	AC128718	Rattus no	605	19	3.1.194246	2	AL627230	AL627230	Human DNA
533	19	3.1.173285	2	AC118963	AC118963	Rattus no	606	19	3.1.194459	2	AC104905	AC104905	Mus muscu
534	19	3.1.173357	9	AC113145	AC113145	Homo sapi	607	19	3.1.194635	2	AC128412	AC128412	Rattus no
535	19	3.1.173359	2	AC021536	AC021536	Homo sapi	608	19	3.1.194645	2	AC095402	AC095402	Rattus no
536	19	3.1.173418	2	AC110354	AC110354	Rattus no	609	19	3.1.194974	2	AC107787	AC107787	Mus muscu
537	19	3.1.173480	9	CNS00MR1	AL079343	Human chr	610	19	3.1.195250	2	AC091313	AC091313	Mus muscu
538	19	3.1.173515	2	AC073394	AC073394	Homo sapi	611	19	3.1.195574	10	AC091782	AC091782	Genomic s
539	19	3.1.173659	2	AC017110	AC017110	Homo sapi	612	19	3.1.195623	2	AC124456	AC124456	Mus muscu
540	19	3.1.173824	10	AL611967	AL611967	Mouse DNA	613	19	3.1.196753	9	AC023826	AC023826	Homo sapi
541	19	3.1.174479	2	AC115824	AC115824	Mus muscu	614	19	3.1.197377	2	AC099374	AC099374	Rattus no
542	19	3.1.174615	2	AC021249	AC021249	Homo sapi	615	19	3.1.197505	2	AL611983	AL611983	Mus muscu
543	19	3.1.175302	2	AC020587	AC020587	Homo sapi	616	19	3.1.197629	2	AC129324	AC129324	Mus muscu
544	19	3.1.175382	9	AL157836	AL157836	Human DNA	617	19	3.1.197729	10	AL663056	AL663056	Mouse DNA
545	19	3.1.175876	2	AC124465	AC124465	Mus muscu	618	19	3.1.198269	2	AL844532	AL844532	Mus muscu
546	19	3.1.175876	2	AC124465	AC124465	Mus muscu	619	19	3.1.198273	2	AC114897	AC114897	Mus muscu
547	19	3.1.175876	8	AC092388	AC092388	Oryza sat	620	19	3.1.198290	2	AC128704	AC128704	Mus muscu
548	19	3.1.177565	2	AC130138	AC130138	Rattus no	621	19	3.1.198390	3	AC091501	AC091501	Drosophi1
549	19	3.1.177992	2	AC109194	AC109194	Homo sapi	622	19	3.1.198634	8	ATCHRIV36	ATCHRIV36	Archidops
550	19	3.1.178294	2	AC096699	AC096699	Rattus no	623	19	3.1.199869	10	AC110374	AC110374	Mus muscu
551	19	3.1.178786	2	AC124880	AC124880	Rattus no	624	19	3.1.200107	2	AC074229	AC074229	Mus muscu
552	19	3.1.178838	2	AC099358	AC099358	Rattus no	625	19	3.1.200125	10	AL589722	AL589722	Mouse DNA
553	19	3.1.179122	2	AC006414	AC006414	Drosophi1	626	19	3.1.200134	2	AC116138	AC116138	Mus muscu
554	19	3.1.179203	9	AC094510	AC094510	Mus muscu	627	19	3.1.201572	9	AC007298	AC007298	Homo sapi
555	19	3.1.180355	2	AC116731	AC116731	Mus muscu	628	19	3.1.201750	10	AC068294	AC068294	Mus muscu
556	19	3.1.180643	9	AC099555	AC099555	Papio cyn	629	19	3.1.201981	2	AC073640	AC073640	Mus muscu
557	19	3.1.180886	2	AC112124	AC112124	Rattus no	630	19	3.1.202081	9	AL391987	AL391987	Human DNA
558	19	3.1.181076	2	AC117342	AC117342	Rattus no	631	19	3.1.202785	2	AC109204	AC109204	Mus muscu
559	19	3.1.181193	2	AC022079	AC022079	Homo sapi	632	19	3.1.202791	2	AC121577	AC121577	Mus muscu
560	19	3.1.181598	2	AC094510	AC094510	Mus muscu	633	19	3.1.203335	2	AC122056	AC122056	Mus muscu
561	19	3.1.181864	2	AC027460	AC027460	Homo sapi	634	19	3.1.203393	2	AC112938	AC112938	Mus muscu
562	19	3.1.182314	2	AC013670	AC013670	Homo sapi	635	19	3.1.204263	2	AC102994	AC102994	Rattus no
563	19	3.1.182366	2	AL591926	AL591926	Human DNA	636	19	3.1.204317	2	AC117764	AC117764	Mus muscu
564	19	3.1.182385	2	AC094602	AC094602	Rattus no	637	19	3.1.204521	2	AC130150	AC130150	Rattus no
565	19	3.1.182659	2	AC120130	AC120130	Mus muscu	638	19	3.1.204598	2	AC097682	AC097682	Rattus no
566	19	3.1.182687	2	AC017065	AC017065	Homo sapi	639	19	3.1.205030	10	AL669911	AL669911	Mouse DNA
567	19	3.1.183149	2	AC129707	AC129707	Rattus no	640	19	3.1.205164	2	AC101867	AC101867	Mus muscu
568	19	3.1.183215	2	AC091095	AC091095	Homo sapi	641	19	3.1.207629	10	AL645637	AL645637	Mouse DNA
569	19	3.1.183301	2	AC102115	AC102115	Mus muscu	642	19	3.1.207683	2	AC098712	AC098712	Mus muscu
570	19	3.1.183450	2	AC119322	AC119322	Rattus no	643	19	3.1.207905	10	AL672013	AL672013	Mouse DNA
571	19	3.1.183900	2	AC110789	AC110789	Homo sapi	644	19	3.1.208133	10	AL731714	AL731714	Mouse DNA
572	19	3.1.184206	9	AC020593	AC020593	Homo sapi	645	19	3.1.209216	2	AL732480	AL732480	Mus muscu
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848	18	2.9	9424	8	SDO404228	SDO404228	Sequence	921	18	2.9	39012	3	UJ1953	UJ1953	Sequence
849	18	2.9	10729	9	ACJ115628	ACJ115628	Sequence	922	18	2.9	39608	9	ACJ009004	ACJ009004	Sequence
850	18	2.9	10781	1	HSJUS8767	HSJUS8767	Sequence	923	18	2.9	39923	9	ALJ627082	ALJ627082	Sequence
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C 958	18	2.9	51242	2	AC008793	AC008793 Homo sapi
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C 961	18	2.9	51705	9	AC092589	AC092589 Homo sapi
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## ALIGNMENTS

RESULT 1  
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LOCUS  
DEFINITION  
BD013235 614 bp DNA linear PAT 02-AUG-2002  
Nucleic acid fragment, recombinant vector containing the same and  
method of promoting the expression of structural gene by using the  
same

ACCESSION  
BD013235  
VERSION  
BD013235.1  
KEYWORDS  
WO 0123544-A/2.  
GI:22093424

SOURCE	Oryza sativa.
ORGANISM	Oryza sativa
REFERENCE	Eukaryote: Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Ehrhartoideae; Oryzaceae; Oryza.
AUTHORS	Ueki,J. and Morioka,S.
TITLE	1 (bases 1 to 614)
JOURNAL	Nucleic acid fragment, recombinant vector containing the same and method of promoting the expression of structural gene by using the Patent: WO 0123544-A 2 05-APR-2001.
COMMENT	JAPAN TOBACCO INC. JUN UEKI, SHINTI MORIOKA OS Oryza sativa (rice) PN WO 0123544-A/2 PD 05-APR-2001 PF 25-SEP-2000 WO 2000JP006560 PR 27-SEP-1999 JP 99P 271762 PI JUN UEKI, SHINTI MORIOKA PC C12N15/11, C12N15/63, C12N15/82, C12N5/14, C12N9/16, A01H5/00 CC FH Key Location/Qualifiers.
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Matches 614; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 2
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XX BD010208;
XX BD010208.1
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XX 08-FEB-2002 (Rel. 70, Last updated, Version 1)
XX Nucleic acid fragment, recombinant vector containing the same and method
XX of promoting the expression of structural gene by using the same.
XX JP 03076232-T/2.
XX
XX Oryza sativa
XX Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
XX Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Ehrhartoideae;
XX Oryzeae; Oryza.
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XX 1-614
XX Ueki J., Morioka S.;
XX "Nucleic acid fragment, recombinant vector containing the same and method
XX of promoting the expression of structural gene by using the";
XX Patent number JP03076232-T/2, 30-MAR-2001.
XX JAPAN TOBACCO INC., JUN UEKI, SHINJI MORIOKA.
XX
XX OS Oryza sativa (rice)
XX PN JP 03076232-T/2
XX PD 30-MAR-2001
XX PF 25-SEP-2000 JP 2000006560
XX PR 27-SEP-1999 JP 99P 221762
XX PI JUN UEKI, SHINJI MORIOKA
XX PC C12N15/11, C12N15/63, C12N15/82, C12N5/14, C12N9/16, A01H5/00
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Query Match 100.0%; Score 614; DB 23; Length 614;
Best Local Similarity 100.0%; Pred. No. 6, 7e-311;
Matches 614; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 241 GATTGGCTATTAATGCTGGCCATTTCTTTGACCAAGTACTTTTGAATCTAGAG 300
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QY 421 TGTGTACCAAAATCTGATTTGATAGATTTTATTTATTTATTTATTTATTTATTTAT 480
DB 421 TGTGTACCAAAATCTGATTTGATAGATTTTATTTATTTATTTATTTATTTATTTAT 480
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DB 541 GTTGTCTTGTATCTTAACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 600
QY 601 TGTGGGTGTGGCA 614
DB 601 TGTGGGTGTGGCA 614
RESULT 3
AR005013
DEFINITION Sequence 5 from patent US 5747327.
ACCESSION AR005013
VERSION AR005013.1 GI:3965892
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 2799)
AUTHORS Ueki, J. and Morioka, S.
TITLE Phospholipase D gene originated from plant
JOURNAL Patent: US 5747327-A 5 05-MAY-1998;
FEATURES
source 1..2799
location/Qualifiers
BASE COUNT 692 a 709 c 609 g 789 t
ORIGIN
Query Match 100.0%; Score 614; DB 6; Length 2799;
Best Local Similarity 100.0%; Pred. No. 5, 9e-311;
Matches 614; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCGCGCAGGGAAGCGCCCCCAAGTTCATCCGCAAGTTCCGACCTTCTCTTAATCT 60
DB 1947 CCGCGCAGGGAAGCGCCCCCAAGTTCATCCGCAAGTTCCGACCTTCTCTTAATCT 2006
QY 61 ACTGCTTTGCTTGTCTCTTTTCTTTTGTGTGTCTCTTTCTTTCTTTCTTTCTTTCT 120
DB 2007 ACTGCTTTGCTTGTCTCTTTTCTTTTGTGTGTCTCTTTCTTTCTTTCTTTCTTTCT 2066
QY 121 AGCCCGAATTGATCTGCTAGTGCACAGTCAAGTCACTGCAAGCAATCTGGAAT 180
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DB 2127 TCTGATTTATTAAGAAAATAAAGAGTAGAGTACAAGAAATGGAGATCTTTCTATCA 2186
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Qy	AAATCTATTTGCTGTATGCTATGTGTCTGTATCTCACTGAATGACATGTCCTCTCTT	540
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Qy	GTTTGTCTTATTAACAGTGAAGCTCATGTCAACAGTTTGTGAGGGGATTAAGACAC	600
Db	GTTTGTCTTATTAACAGTGAAGCTCATGTCAACAGTTTGTGAGGGGATTAAGACAC	2546
Qy	TTGTGGGTGTGGCA	614
Db	TTGTGGGTGTGGCA	2560

RESULT 4					
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LOCUS	AR037063	2799 bp	DNA	linear	PAT 29-SEP-1998
DEFINITION	Sequence 4 from patent US 5801016.				
ACCESSION	AR037063				
VERSION	AR037063.1	Gf:5954919			
KEYWORDS	.				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unclassified.				
AUTHORS	1 (bases 1 to 2799)				
TITLE	Morioka,S. and Ueki,J.				
JOURNAL	DNA fragment; recombinant vector containing the same and method for				
FEATURES	expressing foreign genes using the same				
source	Patent: US 5801016-A 4 01-SEP-1998;				
	Location/Qualifiers				
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BASE COUNT	692 a	709 c	609 g	789 t	
ORIGIN					

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		Oryza sativa (japonica cultivar-group) gene for phospholipase D, complete cds.
ACCESSION	AB001920	
VERSION	AB001920.1	GI:1902902
KEYWORDS		
SOURCE	Oryza sativa (japonica cultivar-group) (cultivar 'Koshihikari') leaf	

QY	1	CCGGCCGAGCGGAGACGCCGCCCAAGTTATCCGCAAGTTGGAACCTTCTCCTTAATCT	60
Db	1947	CCGGCCGAGCGGAGACGCCGCCCAAGTTATCCGCAAGTTGGAACCTTCTCCTTAATCT	2006
QY	61	ACTGCTTTGCTCTTGTCTTTTCTTTTGTGCCCTTCTGTCGTGTGGGTTCATG	120
Db	2007	ACTGCTTTGCTCTTGTCTTTTCTTTTGTGTGTCCTTTCTTTCTTTGTGTGGGTTCATG	2066

ORGANISM  
*Oryza sativa* (Japonica cultivar-group)  
Eurycotla, Viridiplantae; Streptophyta; Eukaryota  
Spermatophytes; Magnoliophyta; Liliopsida; Poales; Poaceae;  
Ehrhartoideae; Oryzaceae; Oryza.

REFERENCE  
AUTHORS  
TITLE  
1 (bases 1522 to 1655; 1839 to 1983; 2524 to 4420)  
Ueki,J., Morioka,S., Komari,T. and Kunashiro,T.  
Purification and characterization of phospholipase D (PLD) from  
rice (*Oryza sativa* L.) and cloning of cDNA for PLD from rice and  
maize (Zea mays L.)  
Journal Plant Cell Physiol. 36 (5), 903-914 (1995)

JOURNAL  
MEDLINE  
PUBMED  
96012933  
7551587  
2 (bases 1 to 5871)  
Morioka,S., Ueki,J. and Komari,T.  
Characterization of two distinctive genomic clones (Accession Nos.  
AB001919 and AB001920) for phospholipase D from rice (PGR97-076)  
Journal Plant Physiol. 114, 396 (1997)

JOURNAL  
REFERENCE  
AUTHORS  
TITLE  
3 (bases 1 to 5871)  
Ueki,J.  
Direct Submission  
Submitted (11-OCT-1995) Jun Ueki, Japan Tobacco Inc., Plant  
Breeding and Genetics Research Lab, 700 Higashibara, Iwata,  
Shizuoka 438-0802, Japan (E-mail:Jun\_Ueki@pbjrl.jti.co.jp,  
Tel:81-338-32-7111, Fax:81-538-32-8700)

FEATURES  
source  
1..5871  
Location/Qualifiers

OY	121	ACCCCGAATTTGATCTGTGCAGACAGTAAAGTCACATACACTGAAACGATCTGGAAAT	180
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OY	181	TCGGAGTTATTAGAAAAATAAAGTAGTAGCAAGAATTGAGATACCTTTCTATCAA	240
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OY	241	GATTGCTATTATGCTTGCGCATTTCTTTGACCACAGTACTCTTGAATCTACAG	300
Db	2187	GATTGCTATTATGCTTGCGCATTTCTTTGACCACAGTACTCTTGAATCTACAG	2246
OY	301	TTTGCTGTGTGATGCTGTGTGTGTTGTGCACAAAATCTTCATTAGCTAAACAG	360
Db	2247	TTTGCTGTGTGATGCTGTGTGTGTTGTGCACAAAATCTTCATTAGCTAAACAG	2306
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exon
CDS

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BASE COUNT 1488 a 1363 c 1355 g 1665 t  
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Query Match 100.0%; Score 614; DB 8; Length 5871;  
Best Local Similarity 100.0%; Pred. No. 5.5e-311;  
Matches 614; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CCGGCGAGGGAAGCCGCCAAGTTCATCCGCAAGTTCGAGCCCTTCCTTATCT 60  
Db 1947 CCGGCGAGGGAAGCCGCCAAGTTCATCCGCAAGTTCGAGCCCTTCCTTATCT 2006  
QY 61 ACTGCTCTTCT 120  
Db 2007 ACTGCTCTTCT 2066  
QY 121 AGCCGCAATTGATCTGCTAGTGCAGTACAGTACATACATGAAACATCTGGAAT 180  
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Db 2127 TCTGATTTATAGGAAATTAAGAGTAGTACAGAAATGGAGATCTTCTATCAA 2186  
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Db 2187 GATTGCTCTATATGCTTGGCCATTTCTTGTGACCAAGTACTTCTTGAATCTAG 2246  
QY 301 TTGCTGCTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360  
Db 2247 TTGCTGCTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2306  
QY 361 AAATTTATTTATTAACCTGACCTTAATAAATGTAAGTCTCTGCTGAGATGCTGCT 420  
Db 2307 AAATTTATTTATTAACCTGACCTTAATAAATGTAAGTCTCTGCTGAGATGCTGCT 2366  
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QY 481 AAATCTATGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540  
Db 2427 AAATCTATGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2486  
QY 541 GTTGCTTGTGATCTCAACGAGCTCATGTCACAGTTTGAGGAGGAGTTGAGGACAC 600  
Db 2487 GTTGCTTGTGATCTCAACGAGCTCATGTCACAGTTTGAGGAGGAGTTGAGGACAC 2546  
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Db 2547 TGTGGTGTGCGCA 2560  
RESULT 6  
LOCUS AP003215/c  
DEFINITION Oryza sativa (japonica cultivar-group) genomic DNA, chromosome 1,  
BAC clone:OSJNBa0089K24.  
ACCESSION AP003215  
VERSION GI:15128217  
KEYWORDS  
SOURCE Oryza sativa (japonica cultivar-group) (cultivar:Nipponbare) DNA,  
clone:OSJNBa0089K24.  
ORGANISM Oryza sativa (japonica cultivar-group)  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
Eriatoideae; Oryzaceae; Oryza.  
REFERENCE  
AUTHORS Sasaki,T., Matsumoto,T. and Yamamoto,K.  
TITLE Oryza sativa nipponbare(GA3) genomic DNA, chromosome 1, BAC  
clone:OSJNBa0089K24  
JOURNAL Published Only in Database (2001)  
REFERENCE 2 (bases 1 to 154137)  
AUTHORS Sasaki,T., Matsumoto,T. and Yamamoto,K.  
TITLE Direct Submision  
JOURNAL Submitted (19-FEB-2001) Takuji Sasaki, National Institute of  
Agrobiological Resources, Rice Genome Research Program, Kannondai  
2-1-2, Tsukuba, Ibaraki 305-8602, Japan  
(E-mail:tsasak@nias.affrc.go.jp, URL:http://rgp.dna.affrc.go.jp/  
Tel:81-298-38-7441, Fax:81-298-38-7468)  
On Aug 9, 2001 this sequence version replaced gi:1342957.  
Genes were predicted from the integrated results of the following:  
GENSCAN 0. BLAST2.0. BLASTX2.0. as well as SplicePredictor  
(October 1998 version). The genomic sequence was searched against  
NCBI NonRedundant Protein database, or  
(ftp://ncbi.nlm.nih.gov/blast/db) and the cDNA sequence database at  
RGP. Protein homologies of the coding regions were searched against  
NCBI NonRedundant Protein database with BLASTP2.0. ESTs represent  
the identified cDNA sequences using BLASTN 2.0 with the  
corresponding DBI accession no. and RGP clone ID.  
A gene with identity or significant homology to a protein is  
classified based on the protein name to indicate the homology level  
such as same name, 'putative-' and '-like protein'. A gene without  
significant homology to any protein but with EST homology (covering  
almost the entire length of partial sequence) is classified as an  
'unknown' protein. A gene predicted with a gene prediction program  
is classified as a 'hypothetical' protein.  
The orientation of the sequence is from -21M13 to M13Rev of the BAC  
clone. This sequence of OSJNBa0089K24 clone has an overlap with  
p0013F10 clone (DBJ: AP002523) at the position 151,639 to 154,137  
of 3' end. The sequence of this clone ends at the position 2,499 of  
p0013F10. Detailed information on overlap and assembly quality  
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http://rgp.dna.affrc.go.jp/Genomeseg.html.  
Location/Qualifiers  
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CDS

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CC PR 27-SEP-1999 JP 99P 271762  
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 CC PC C12N15/11,C12N15/63,C12N15/82,C12N15/14,C12N9/16,A01H5/00  
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 SQ Sequence 540 BP; 132 A; 94 C; 104 G; 210 T; 0 other;

Query Match 87.9%; Score 540; DB 23; Length 540;  
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 Matches 540; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 38 GTTCGACCCCTTCTCTTAATCTACTGCTTTGCTCTTCTTTCTTTGTCCTCC 97  
 DB 1 GTTCGACCCCTTCTCTTAATCTACTGCTTTGCTCTTCTTTCTTTGTCCTCC 60  
 QY 98 TTCTTGTGTGCTGCTTGTGATGAGCCCGAATTGATCTGCTAGTACAGTACAGT 157  
 DB 61 TTCTTGTGTGCTGCTTGTGATGAGCCCGAATTGATCTGCTAGTACAGTACAGT 120  
 QY 158 ATACACTGAAACGATCTGAAATCTGATTTTAGAAAAATTAAGAGTATGACAA 217  
 DB 121 ATACACTGAAACGATCTGAAATCTGATTTTAGAAAAATTAAGAGTATGACAA 180  
 QY 218 GAATGAGATTAATTTCTTCAAGATTTGCTATTATGCTTGGCCATTCTTTGTTGACC 277  
 DB 181 GAATGAGATTAATTTCTTCAAGATTTGCTATTATGCTTGGCCATTCTTTGTTGACC 240  
 QY 278 CAAGTACTTCTTGAATCTAGAGTTGCTGTGTGATGCTGTGTGTGTGTGTGACCA 337  
 DB 241 CAAGTACTTCTTGAATCTAGAGTTGCTGTGTGATGCTGTGTGTGTGTGTGACCA 300  
 QY 338 AAAATCTTCATAGCTAAACGAAATTTTATTTAATCTAGCCTACTAAATATGAGA 397  
 DB 301 AAAATCTTCATAGCTAAACGAAATTTTATTTAATCTAGCCTACTAAATATGAGA 360  
 QY 388 GTTCTCTGTGTGATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 457  
 DB 361 GTTCTCTGTGTGATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420  
 QY 458 TTATTTAATCTAGCTACTAACAATCTATTTGCTATGCTATGCTGTGTGTGTGTGT 517  
 DB 421 TTATTTAATCTAGCTACTAACAATCTATTTGCTATGCTATGCTGTGTGTGTGTGT 480  
 QY 518 TGAATGCAATGCTCTTCTTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 577  
 DB 481 TGAATGCAATGCTCTTCTTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 540

RESULT 9  
 AP003282/c 135295 bp DNA linear PLN 21-MAR-2002  
 LOCUS Oryza sativa (japonica cultivar-group) genomic DNA, chromosome 1,  
 DEFINITION PAC clone:PO583G08.  
 ACCESSION AP003282 GI:15004914  
 VERSION  
 KEYWORDS  
 SOURCE  
 ORGANISM  
 Oryza sativa (japonica cultivar-group) (cultivar: Nipponbare) DNA,  
 clone:PO583G08.  
 Oryza sativa (japonica cultivar-group) (cultivar: Nipponbare) DNA,  
 clone:PO583G08.  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
 Eriatoidae; Oryzaceae; Oryza.  
 REFERENCE  
 1 Sasaki, T., Matsumoto, T. and Yamamoto, K.

TITLE  
 JOURNAL  
 REFERENCE  
 AUTHORS  
 TITLE  
 JOURNAL  
 Oryza sativa nipponbare (GA3) genomic DNA, chromosome 1, PAC  
 clone:PO583G08  
 Published Only in Database (2001)  
 2 (bases 1 to 135295)  
 Sasaki, T., Matsumoto, T. and Yamamoto, K.  
 Direct Submission  
 Submitted (19-FEB-2001) Takuji Sasaki, National Institute of  
 Agrobiological Sciences, Rice Genome Research Program; Kamondai  
 2-1-2, Tsukuba, Ibaraki 305-8602, Japan  
 (E-mail:tsasaki@nias.affrc.go.jp, URL:ftp://rgp.dna.affrc.go.jp/  
 Tel:81-298-38-7441, Fax:81-298-38-7468)  
 On Jul 24, 2001 this sequence version replaced gi:13027312.  
 Genes were predicted from the integrated results of the following:  
 GENSCAN1.0, BLAST2.0, BLASTX2.0 as well as SplicePredictor  
 (October 1998 version). The genomic sequence was searched against  
 NCBI Nonredundant Protein database, nr  
 (ftp://ncbi.nlm.nih.gov/blast/db) and the cDNA sequence database at  
 RGP. Protein homologies of the coding regions were searched against  
 NCBI Nonredundant Protein database with BLASTP2.0. ESTs represent  
 the identified cDNA sequences using BLASTN 2.0 with the  
 corresponding DBJ accession no. and RGP clone ID.  
 A gene with identity or significant homology to a protein is  
 classified based on the protein name to indicate the homology level  
 such as same name, 'putative-' and '-like protein'. A gene without  
 significant homology to any protein but with EST homology (covering  
 almost the entire length of partial sequence) is classified as an  
 'unknown' protein. A gene predicted with a gene prediction program  
 is classified as a 'hypothetical' protein.  
 The orientation of the sequence is from T7 to SP6 of the PAC clone.  
 This sequence of PO583G08 clone has an overlap with OJ1276B06  
 (DBJ: AP0033359) clone at the position 1 to 15,586 and with  
 OSUBA0089K24 (DBJ: AP003215) at the position 134,939 to 135,295  
 of 5' end. The sequence of this clone starts at the position  
 159,588 of OJ1276B06 and ends at the position 356 of OSUBA0089K24.  
 Detailed information on overlap and assembly quality together with  
 annotation of this entry is available at  
 http://rgp.dna.affrc.go.jp/GenomeSeq.html.

## FEATURES

source  
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 CDS  
 gene  
 CDS

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EMLIHKNSMLPDEFSEFYGDSEETAENKPCNFASENAPSPCDASLHOTEDELQNTNS  
TAVHESLSEEEKMLAQGVQEOIDQPLFSDIMDMVMVESYKQCPMARLYGR  
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SNPTKMGPNITYANSNDLTKOSSAQCQSEWVDVFSMKVSAASAKEKINAYRRA  
AERRILIRGIGIGPQKQSSSTNFYHEETSEBMDLGGASVDMNRRSSGLNARKMM  
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PEPTGCSKLTMLGLAETSISGPLPTGQIKLNTLITATLISGPITPELRCSTL  
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STSDHEVQSTNSPTGSLAOKALHHAIVGYDQYGAKASLNWASARATYAE  
FUSQIHWISGFRGNDLNTTEAGMVSPELYGDNNEPFTYTTDAVQATGYNLCS  
GEVQNTNRALIAAISPTSVMGRQFIDSLIMKDRRHHMLQAGSLVGYWPSL  
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GSLPIPAEFSBPVAKYTAVSPPDETTLEIROMSROBVEYAKTLXGDPKAKLYEA  
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join(59847..60174,60209..60263,60286..60574,61172..61324,  
62306..63169,63296..63409,64875..65140,65697..65993,  
66434..66804,67702..67758,68058..68086,68430..70194,  
70984..71093,71170..71237,71444..71558)  
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Best Local Similarity 100.0%; Pred. No. 7,2e-21;  
Matches 61; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 554 TAACACGTGACCTCACTCAACATTGTCGAGGAGATTGAGACACTGTCGGCTGCGC 613  
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Db 135295 TAAACCTGAGCTCATCTCAACAGTTTGTGAGCGGATTGAGACACTGTGGTCTGCGC 135236  
QY 614 A 614  
Db 135235 A 135235  
RESULT 10  
RICHPD2 2990 bp mRNA linear PLN 05-Apr-2002  
LOCUS Oryza sativa (japonica cultivar-group) mRNA for phospholipase D,  
DEFINITION complete cds.  
ACCESSION D73411.1 GI:1020414  
VERSION D73411.1  
KEYWORDS  
SOURCE Oryza sativa (japonica cultivar-group) (cultivar:Koshihikari)  
ORGANISM Oryza sativa (japonica cultivar-group)  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
Erbartoideae; Oryzaceae; Oryza.  
REFERENCE Ueki,J., Morioaka,S., Komari,T. and Kumashiro,T.  
TITLE Purification and characterization of phospholipase D (PLD) from  
rice (Oryza sativa L.) and cloning of cDNA for PLD from rice and  
maize (Zea mays L.)

JOURNAL Plant Cell Physiol. 36 (5), 903-914 (1995)  
 MEDLINE 96012933  
 REFERENCE 2 (bases 1 to 2990)  
 AUTHORS Ueki,J.  
 JOURNAL Title Submitted (11-OCT-1995) Jun Ueki, Japan Tobacco Inc., Plant Breeding and Genetics Research Lab; 700 Higashibara, Iwata, Shizuoka 438-0802, Japan (E-mail:Jun.Ueki@bgrl.jti.co.jp, Tel:81-538-33-7111, Fax:81-538-32-8700)  
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 Best Local Similarity 100.0%; Pred. No. 3.5e-09;  
 Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 576 AGTTTGTGAGGGGATTGAGACACTGTGGTGTGCGCA 614  
 Db 288 AGTTTGTGAGGGGATTGAGACACTGTGGTGTGCGCA 326

RESULT 11  
 LOCUS AR005011 3040 bp DNA linear PAT 04-DEC-1998  
 DEFINITION Sequence 1 from patent US 5747327.  
 ACCESSION AR005011  
 VERSION AR005011.1 GI:3965890  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 3040)  
 AUTHORS Ueki,J. and Morioke,S.  
 TITLE Phospholipase D gene originated from plant  
 JOURNAL Patent: US 5747327-A 1 05-MAY-1998;  
 FEATURES Location/Qualifiers  
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BASE COUNT 784 a 724 c 783 g 749 t  
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 Best Local Similarity 100.0%; Pred. No. 3.5e-09;  
 Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 288 AGTTTGTGAGGGGATTGAGACACTGTGGTGTGCGCA 326

RESULT 12  
 LOCUS AR037062 3040 bp DNA linear PAT 29-SEP-1999  
 DEFINITION Sequence 2 from patent US 5801016.  
 ACCESSION AR037062  
 VERSION AR037062.1 GI:5954918  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 3040)  
 AUTHORS Morioke,S. and Ueki,J.  
 TITLE DNA fragment, recombinant vector containing the same and method for expressing foreign genes using the same  
 JOURNAL Patent: US 5801016-A 2 01-SEP-1998;  
 FEATURES Location/Qualifiers  
 source 1..3040  
 /organism="unknown"

BASE COUNT 784 a 724 c 783 g 749 t  
 ORIGIN  
 Query Match 6.4%; Score 39; DB 6; Length 3040;  
 Best Local Similarity 100.0%; Pred. No. 3.5e-09;  
 Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 576 AGTTTGTGAGGGGATTGAGACACTGTGGTGTGCGCA 614  
 Db 288 AGTTTGTGAGGGGATTGAGACACTGTGGTGTGCGCA 326

RESULT 13  
 LOCUS AR082616 3040 bp DNA linear PAT 31-AUG-2000  
 DEFINITION Sequence 1 from patent US 5973226.  
 ACCESSION AR082616  
 VERSION AR082616.1 GI:10009336  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 REFERENCE 1 (bases 1 to 3040)  
 AUTHORS Ueki,J. and Morioke,S.  
 TITLE Method of changing the composition of the phospholipid produced by the living body and recombinant vector therefor  
 JOURNAL Patent: US 5973226-A 1 26-OCT-1999;  
 FEATURES Location/Qualifiers  
 source 1..3040  
 /organism="unknown"

BASE COUNT 784 a 724 c 783 g 749 t  
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 Query Match 6.4%; Score 39; DB 6; Length 3040;  
 Best Local Similarity 100.0%; Pred. No. 3.5e-09;  
 Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 576 AGTTTGTGAGGGGATTGAGACACTGTGGTGTGCGCA 614  
 Db 288 AGTTTGTGAGGGGATTGAGACACTGTGGTGTGCGCA 326

RESULT 14  
 LOCUS AC087149 172224 bp DNA linear HTG 09-DEC-2000  
 DEFINITION Mus musculus clone RP23-31016, WORKING DRAFT SEQUENCE, 17 unordered pieces.  
 ACCESSION AC087149  
 VERSION AC087149.1 GI:11610875  
 KEYWORDS HTG; HTGS\_PHASE1; HTGS\_DRAFT.  
 SOURCE Mus musculus.



ORGANISM Mus musculus  
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
AUTHORS 1 (bases 1 to 172224)  
TITLE DOE Joint Genome Institute.  
JOURNAL Sequencing of Mouse  
REFERENCE Unpublished  
AUTHORS 2 (bases 1 to 172224)  
TITLE DOE Joint Genome Institute.  
JOURNAL Direct Submission  
Submitted (09-DEC-2000) Production Sequencing Facility, DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA  
-----Genome Center  
Center: Joint Genome Institute  
Center Code: JGI  
Web site: http://www.jgi.doe.gov  
-----  
Project Information  
Center Project Name: 1856110  
Center clone name: RPCI-23\_31016  
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Summary Statistics  
Consensus quality: 160964 bases at least Q40  
Consensus quality: 164326 bases at least Q30  
Consensus quality: 166482 bases at least Q20  
Estimated insert size: 200000; agarose-fp estimation  
Estimated insert size: 170624; sum-of-contigs estimation  
Quality coverage: 10.97 in Q20 bases; agarose-fp estimation  
Quality coverage: 12.86 in Q20 bases; sum-of-contigs estimation  
NOTE: This is a 'working draft' sequence. It currently consists of 17 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.  
1 1216: contig of 1216 bp in length  
1217 1316: gap of unknown length  
1317 2574: contig of 1258 bp in length  
2575 2674: gap of unknown length  
2675 3683: contig of 1009 bp in length  
3684 3783: gap of unknown length  
3784 6495: contig of 2712 bp in length  
6496 6595: gap of unknown length  
6596 9535: contig of 2940 bp in length  
9536 9635: gap of unknown length  
9636 11503: contig of 1868 bp in length  
11504 11603: gap of unknown length  
11604 15360: contig of 3757 bp in length  
15361 15460: gap of unknown length  
15461 26040: contig of 10580 bp in length  
26041 26140: gap of unknown length  
26141 34081: contig of 7941 bp in length  
34082 34181: gap of unknown length  
34182 41297: contig of 7116 bp in length  
41298 41397: gap of unknown length  
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112138 112237: gap of unknown length  
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/db\_xref="taxon:10090"  
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ORIGIN  
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Best Local Similarity 100.0%; Pred. No. 0.055;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
DY 68 TTGGCTTGGCTTTCTTTCTTTGT 92  
Db 11486 TTGGCTTGGCTTTCTTTCTTTGT 11462  
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RESULT 15  
AC094071  
LOCUS  
DEFINITION Rattus norvegicus clone CH230-108X9, \*\*\* SEQUENCING IN PROGRESS  
AC094071  
AC094071.4 GI:21729029  
VERSION  
AC094071  
KEYWORDS HTG; HTGS\_PHASE1.  
SOURCE  
SOURCE Norway rat.  
ORGANISM Rattus norvegicus  
Rattus norvegicus  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;  
1 (bases 1 to 190039)  
Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-osman,F.R., Allen,C., Alsbrooks,S.L., Amaraltinge,H.C., Aye,J.R., Ayale,M., Banks,T., Barbieri,J., Benton,J., Bimaga,K., Blankenburg,K., Bonini,D., Bouck,J., Bowls,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P., Buhey,C., Burch,P., Burkett,C., Burnett,K.L., Byrd,N.C., Caron,T.F., Carter,M., Cavazos,S.R., Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Z., Chowdhry,I., Christopoulos,C., Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R., Davila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A., Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinu,H.H., Douthwaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J., Earnhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Escotto,M., Falls,T., Ferraguto,D., Flagg,N., Ford,J., Foster,P., Franz,P., Gabriel,A., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R., Gorrell,J.H., Guevara,W., Gunaratne,P., Hale,S., Hamilton,K., Harris,C., Harris,K., Hart,M., Havlak,P., Hawes,A., Hernandez,J., Hernandez,O., Hodgson,A., Hognes,M., Holloway,C., Hollins,B., Homsi,F., Howard,S., Huber,J., Huiyk,S., Hume,J., Jackson,L.E., Jacobson,B., Jia,Y., Johnson,R., Jolivet,S., Joudah,S., Karlsson,E., Kelly,S., Khan,U., King,L., Korvah,J., Kovari,C., Kratovic,J., Kureshi,A., Landry,N., Leal,B., Lewis,L.C., Lewis,L., Li,Z., Lichtarge,O., Liu,C., Liu,J., Liu,W., Louleeged,H., Lozano,R.J., Lu,X., Lucier,A., Lucier,R., Luna,R., Ma,J., Mageshwaril,M., Mapua,P., Martin,R., Martindale,A., Martinez,B., Massey,E., Mawhinney,E., McLeod,M.P., Meador,M., Mel,G., Metzker,M., Miner,G., Miner,Z., Mitchell,T., Mohabbat,K., Morgan,M., Morris,S., Moser,M., Neal,D., Newton,J., Newton,N., Nguyen,A., Nguyen,N., Nguyen,N., Nickerson,E., Nwokenkwo,S., Ogum,H., Okumura,G., Oragunye,N., Oviedo,R., Pace,A., Payton,B., Peery,J., Perez,L., Peters,L., Pickens,R., Primus,E., Pu,L.L., Quiles,M., Ren,Y., Rivers,M., Rojas,A., Rojoudokan,I., Rolfe,M., Ruiz,S., Savery,G., Scherer,S., Scott,G., Shen,H., Shooshbari,N., Sisson,I., Sodergren,E., Sonalke,T., Sparks,A., Stanley,H., Stone,H., Sutton,A., Svatek,A., Taber,P., Tamerisa,A., Tamerisa,K., Tang,H., Tansley,J., Taylor,C., Taylor,T., Telford,B., Thomas,N., Thomas,S., Usmani,K., Vazquez,L., Vera,V., Villalón,D., Vinson,R., Wang,Q., Wang,S., Ward-Moore,S., Warren,R., Washington,C., Watlington,S., Williams,G., Williamson,A., Wleczky,R., Woodson,S., Worley,K., Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D., Weinstein,G. and Gibbs,R.  
Direct Submission  
Unpublished  
JOURNAL 1 (bases 1 to 190039)  
AUTHORS Worley,K.C.

TITLE  
JOURNAL  
REFERENCE  
AUTHORS  
JOURNAL  
COMMENT

Direct Submission  
Submitted (14-SEP-2001) Human Genome Sequencing Center, Department  
of Molecular and Human Genetics, Baylor College of Medicine, One  
3 (bases 1 to 190039)  
Worley, K.C.  
Submitted (12-JUL-2002) Human Genome Sequencing Center, Department  
of Molecular and Human Genetics, Baylor College of Medicine, One  
Baylor Plaza, Houston, TX 77030, USA  
On Jul 11, 2002 this sequence version replaced gi:17972929.

----- Genome Center -----  
Center: Baylor College of Medicine  
Center code: BCM  
Web site: <http://www.hgsc.bcm.tmc.edu/>  
Contact: [hgsc-help@bcm.tmc.edu](mailto:hgsc-help@bcm.tmc.edu)  
----- Project Information -----  
Center project name: GGUO  
Center clone name: CH230-108K9  
----- Summary Statistics -----  
Sequencing vector: Plasmid;  
Chemistry: Dye-terminator Big Dye; 100% of reads  
Assembly program: Phrap; version 0.990329  
Consensus quality: 124193 bases at least Q40  
Consensus quality: 137621 bases at least Q30  
Consensus quality: 147568 bases at least Q20

----- NOTE: Estimated insert size may differ from sequence length  
(see [http://www.hgsc.bcm.tmc.edu/docs/genbankdraft\\_data.html](http://www.hgsc.bcm.tmc.edu/docs/genbankdraft_data.html)).  
NOTE: This is a 'working draft' sequence. It currently  
consists of 68 contigs. The true order of the pieces  
is not known and their order in this sequence record is  
arbitrary. Gaps between the contigs are represented as  
runs of N, but the exact sizes of the gaps are unknown.  
This record will be updated with the finished sequence  
as soon as it is available and the accession number will  
be preserved.

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Query Match

4.1%; Score 25; DB 2; Length 190039;

Best Local Similarity 100.0%; Pred. No. 0.055;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 308 TGTGTGATGTGTGTGTGTGTGTGT 332  
| | | | | | | | | | | | | | | |  
Db 7166 TGTGTGATGTGTGTGTGTGTGTGT 7190

Search completed: April 3, 2003, 12:28:34  
Job time : 2349 secs

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GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: April 3, 2003, 10:27:58 ; Search time 212 Seconds

(without alignments)  
6522.297 Million cell updates/sec

Title: US-09-856-725-2

Perfect score: 614  
Sequence: 1 ccgcgcagcggaagcgcgc.....ggacactgtgggtgtcgcga 614

Scoring table: OLIGO NUC  
Gapop 60.0 , Gapext 60.0

Searched: 2185239 seqs, 112599159 residues

Word size : 0

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Match	Query Length	DB ID	Description
1	614	100.0	614	22	AA82186
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4	540	87.9	540	22	AA82185
5	39	6.4	3040	16	AA086783
6	39	6.4	3040	17	AA742853
7	39	6.4	3040	18	AA785509
8	23	3.7	2708	16	AA086784
9	21	3.4	2970	23	AB119474

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C	11	20	3.3	999	21	AA470234	Plasmodium falcipa
C	12	20	3.3	2115	22	AA161359	Human polynucleoti
C	13	20	3.3	2178	20	AA77111	Restriction fragme
C	14	20	3.3	2762	22	AAK94314	Human full-length
C	15	20	3.3	2970	20	AA777114	DNA sequence of GC
C	16	20	3.3	2982	22	AA099553	Human drug metabol
C	17	20	3.3	7503	21	AA470206	Plasmodium falcipa
C	18	20	3.3	10048	24	AB067015	Human angiotensin
C	19	19	3.1	357	20	AA866421	EST clone AR440.
C	20	19	3.1	651	24	AB016108	Oligonucleotide fo
C	21	19	3.1	651	24	AB016109	Oligonucleotide fo
C	22	19	3.1	794	19	AA441443	Nucleotide sequenc
C	23	19	3.1	794	22	AA4707674	Human cDNA clone A
C	24	19	3.1	840	22	AA4707674	Human cDNA clone (
C	25	19	3.1	912	22	AA256509	H. pylori HPS048 e
C	26	19	3.1	921	22	AA256574	H. pylori HPC094 e
C	27	19	3.1	1305	24	ABK35529	cDNA sequence #20
C	28	19	3.1	1459	20	AAV90542	Nucleotide sequenc
C	29	19	3.1	2554	22	AAH14908	Human cDNA sequenc
C	30	19	3.1	3069	20	AAV90854	Polynucleotide enc
C	31	19	3.1	3069	20	AAV90854	Nucleotide sequenc
C	32	19	3.1	6179	22	AA546344	Tumour suppressor
C	33	19	3.1	6179	24	ABK31251	Signal transductio
C	34	19	3.1	6668	24	ABJ33696	Human immune syste
C	35	19	3.1	11726	24	ABJ34063	Human immune syste
C	36	19	3.1	12269	22	AA546471	Tumour suppressor
C	37	19	3.1	12269	24	ABJ34110	Human immune syste
C	38	19	3.1	17419	22	AA545392	Chemically pretrea
C	39	19	3.1	17419	24	ABJ33294	Human immune syste
C	40	19	3.1	17419	24	ABK28237	DNA transcription
C	41	19	3.1	17694	23	ABJ08792	Drosophila melanog
C	42	19	3.1	240825	22	AA244493	Human PG-3 gene.
C	43	19	3.1	249487	24	AB885733	Mouse genomic regi
C	44	18	2.9	48	16	AA26135	Human gene signatu
C	45	18	2.9	231	23	ABV60110	Human prostate exp
C	46	18	2.9	298	22	ABV60636	Human polynucleoti
C	47	18	2.9	301	23	ABV60636	Human prostate exp
C	48	18	2.9	386	22	ABV12698	Human nervous syst
C	49	18	2.9	400	22	ABV18128	Human nervous syst
C	50	18	2.9	400	22	ABV18129	Human nervous syst
C	51	18	2.9	400	22	ABV18130	Human nervous syst
C	52	18	2.9	417	21	AA24643	Human secreted pro
C	53	18	2.9	432	24	ABN70799	Streptococcus poly
C	54	18	2.9	474	24	ABN66340	Streptococcus poly
C	55	18	2.9	474	24	ABN70297	Streptococcus poly
C	56	18	2.9	490	24	ABN61523	Human cancer relat
C	57	18	2.9	518	24	ABQ32740	Oligonucleotide fo
C	58	18	2.9	518	24	ABQ32741	Oligonucleotide fo
C	59	18	2.9	536	21	AA293855	Cat flea hindgut a
C	60	18	2.9	548	22	AAH09034	Human cDNA clone (
C	61	18	2.9	577	24	ABQ30376	Oligonucleotide fo
C	62	18	2.9	577	24	ABQ30377	Oligonucleotide fo
C	63	18	2.9	621	23	ABJ20099	Drosophila melanog
C	64	18	2.9	621	23	ABJ20099	Arabidopsis thalia
C	65	18	2.9	681	21	AA29806	Arabidopsis thalia
C	66	18	2.9	707	24	ABQ68394	Lisferia monocyot
C	67	18	2.9	761	21	AA215464	Human gene express
C	68	18	2.9	855	20	AA215464	Human gene express
C	69	18	2.9	868	22	AAH94377	Human foetal cDNA
C	70	18	2.9	932	23	ABV20767	Human prostate exp
C	71	18	2.9	932	23	ABV26611	Human prostate exp
C	72	18	2.9	1001	21	AA257824	Archaeonic acid m
C	73	18	2.9	1096	22	ABN08797	Human membrane-bou
C	74	18	2.9	1500	24	ABK72881	Bacillus lichenifo
C	75	18	2.9	1861	21	AA298314	A. thaliana gene i
C	76	18	2.9	1921	22	AA165176	Growth hormone fam
C	77	18	2.9	2019	24	ABQ70736	Lisferia monocyot
C	78	18	2.9	2021	22	AAH32881	Human genomic DNA
C	79	18	2.9	2077	22	AAH13742	Human cDNA sequenc
C	80	18	2.9	2138	23	ABJ21634	Drosophila melanog
C	81	18	2.9	2391	23	AA570553	DNA encoding novel
C	82	18	2.9	2615	23	ABJ19938	Drosophila melanog

C 83	18	2.9	2679	24	ABO70862	Listeria monocytog
C 84	18	2.9	2810	8	AAW70218	Leu2 gene of Y.lip
C 85	18	2.9	2810	16	AAO83184	Yarrowia lipolytic
C 86	18	2.9	2825	23	ABL20098	Drosophila melanog
C 87	18	2.9	3561	23	ABL13848	Drosophila melanog
C 88	18	2.9	4895	23	ABL11702	Drosophila melanog
C 89	18	2.9	5001	24	ABL54374	Chemically treated
C 90	18	2.9	5001	24	ABK3951	Human DNA for stag
C 91	18	2.9	5208	24	ABL32922	Human immune syste
C 92	18	2.9	5208	24	ABL32922	Human immune syste
C 93	18	2.9	5296	24	ABL32874	Human immune syste
C 94	18	2.9	5529	24	ABL33285	Human immune syste
C 95	18	2.9	5529	24	ABK5083	DNA encoding plas
C 96	18	2.9	5771	24	ABN80072	Human chemically m
C 97	18	2.9	5856	24	ABK39988	Human chemically p
C 98	18	2.9	5856	24	ABK39988	Human immune syste
C 99	18	2.9	5928	24	ABK32802	Human chemically t
C 100	18	2.9	5928	24	ABK32802	Human immune syste
C 101	18	2.9	6072	24	ABD8377	Human angio genesis
C 102	18	2.9	6091	24	ABO67138	Human immune syste
C 103	18	2.9	6113	24	ABK32031	Human gene regulat
C 104	18	2.9	6113	24	ABK32802	Human gene regulat
C 105	18	2.9	6154	24	AAW70167	Chemically treated
C 106	18	2.9	6154	24	AAW70167	Signal transductio
C 107	18	2.9	6154	24	AAW70167	Signal transductio
C 108	18	2.9	6289	24	ABK31200	Human immune syste
C 109	18	2.9	6310	24	ABK33029	Chemically treated
C 110	18	2.9	6310	24	ABK33029	Human gene regulat
C 111	18	2.9	6310	24	AAW61268	Human immune syste
C 112	18	2.9	6310	24	ABK31364	Signal transductio
C 113	18	2.9	6381	24	ABK70243	Chemically treated
C 114	18	2.9	6381	24	ABK32966	Human immune syste
C 115	18	2.9	6541	24	ABK34518	Human metacastis a
C 116	18	2.9	6541	24	ABN80029	Human chemically m
C 117	18	2.9	6631	24	ABK28340	DNA transcription
C 118	18	2.9	6631	24	ABK28340	Chemically treated
C 119	18	2.9	6669	24	ABL49306	Human polynucleoti
C 120	18	2.9	6669	24	ABL32193	Human immune syste
C 121	18	2.9	6681	24	ABL54304	Chemically treated
C 122	18	2.9	6740	24	ABL33155	Human immune syste
C 123	18	2.9	6971	24	ABN80061	Human immune syste
C 124	18	2.9	7099	22	AAK91291	Human digestive sy
C 125	18	2.9	7165	24	ABL70222	Chemically treated
C 126	18	2.9	7165	24	ABL32751	Human immune syste
C 127	18	2.9	7165	24	ABL32751	Signal transductio
C 128	18	2.9	7384	24	ABL32746	Human immune syste
C 129	18	2.9	7781	24	ABL33169	Chemically treated
C 130	18	2.9	7849	24	ABL32279	Drosophila melanog
C 131	18	2.9	7849	24	ABL32279	Human immune syste
C 132	18	2.9	7942	23	ABL22330	Chemically treated
C 133	18	2.9	8148	24	ABO71020	Drosophila melanog
C 134	18	2.9	8781	24	ABL33687	Listeria monocytog
C 135	18	2.9	8923	22	AAK87591	Human immune syste
C 136	18	2.9	9007	22	AAK87591	Human immune/haema
C 137	18	2.9	9243	24	ABN60195	Tumour suppressor
C 138	18	2.9	9243	24	ABK28254	Human chemically m
C 139	18	2.9	9568	22	ABK19058	DNA transcription
C 140	18	2.9	10072	23	ABK19058	Human nervous syst
C 141	18	2.9	10770	22	AAK32561	Drosophila melanog
C 142	18	2.9	10770	22	AAK79181	Human genomic DNA
C 143	18	2.9	11169	22	ABO67096	Human immune/haema
C 144	18	2.9	11169	22	AAK28662	Human angio genesis
C 145	18	2.9	11327	22	AAK28662	Genomic sequence #
C 146	18	2.9	11706	22	ABK46432	Tumour suppressor
C 147	18	2.9	11706	22	ABK46432	Human nervous syst
C 148	18	2.9	12069	24	ABK34063	Human immune syste
C 149	18	2.9	12275	23	ABK39931	Human chemically p
C 150	18	2.9	12613	22	AAK32560	Drosophila melanog
C 151	18	2.9	13125	22	AAK79178	Human genomic DNA
C 152	18	2.9	13125	24	ABK70284	Human immune/haema
C 153	18	2.9	13125	24	ABK33227	Chemically treated
C 154	18	2.9	13125	24	ABK33227	Human immune syste
C 155	18	2.9	13216	22	AAK73092	Human metacastis a
C 156	18	2.9	13216	22	AAK7561	Human immune/haema
C 157	18	2.9	13784	22	ABK40062	Human chemically p
C 158	18	2.9	15196	22	AAK73103	Human immune/haema
C 159	18	2.9	15196	22	AAK87548	Human immune/haema
C 160	18	2.9	16449	23	ABL25556	Human immune/haema
C 161	18	2.9	17419	22	ABK25556	Drosophila melanog
C 162	18	2.9	17419	22	ABK25556	Chemically treated
C 163	18	2.9	17419	24	ABK33295	Human immune syste
C 164	18	2.9	18085	24	ABK28238	Human immune syste
C 165	18	2.9	18085	24	ABK28238	Drosophila melanog
C 166	18	2.9	18133	23	ABK40017	Human chemically p
C 167	18	2.9	18133	24	ABK32940	Human immune syste
C 168	18	2.9	18188	22	AAK87552	Human immune/haema
C 169	18	2.9	18252	22	AAK87552	Human immune/haema
C 170	18	2.9	19131	22	AAK87554	Tumour suppressor
C 171	18	2.9	19988	22	AAK28523	Genomic fragment #
C 172	18	2.9	20188	22	AAK73082	Human immune/haema
C 173	18	2.9	20188	22	AAK73082	Human immune/haema
C 174	18	2.9	20991	22	AAK87545	Human immune/haema
C 175	18	2.9	21358	22	AAK39919	Human immune/haema
C 176	18	2.9	21358	22	AAK73090	Genomic sequence #
C 177	18	2.9	21358	22	AAK87446	Human reproductive
C 178	18	2.9	21358	22	AAK87446	Human immune/haema
C 179	18	2.9	21358	22	AAK90363	Human immune/haema
C 180	18	2.9	21676	22	AAK39918	Human immune/haema
C 181	18	2.9	21676	22	AAK87445	Human immune/haema
C 182	18	2.9	21676	22	AAK73081	Human digestive sy
C 183	18	2.9	21676	22	AAK87445	Genomic sequence #
C 184	18	2.9	21676	22	AAK87445	Human reproductive
C 185	18	2.9	21676	22	AAK87445	Human immune/haema
C 186	18	2.9	21936	22	ABK15865	Human immune/haema
C 187	18	2.9	21936	22	ABK15865	Human immune/haema
C 188	18	2.9	21936	22	AAK73081	Human digestive sy
C 189	18	2.9	21936	22	AAK73081	Human reproductive
C 190	18	2.9	21936	22	AAK73081	Human reproductive
C 191	18	2.9	23603	22	AAK79678	Human breast or ov
C 192	18	2.9	23603	22	AAK79678	Human immune/haema
C 193	18	2.9	23603	22	AAK73089	Human immune/haema
C 194	18	2.9	23603	22	AAK73089	Human immune/haema
C 195	18	2.9	23603	22	AAK87557	Human immune/haema
C 196	18	2.9	23603	22	AAK87557	Human immune/haema
C 197	18	2.9	23613	22	AAK71823	Human immune/haema
C 198	18	2.9	23613	22	AAK71823	Human immune/haema
C 199	18	2.9	23899	23	ABK10362	Human immune/haema
C 200	18	2.9	24218	22	AAK71828	Human immune/haema
C 201	18	2.9	24218	22	AAK71828	Human immune/haema
C 202	18	2.9	24218	22	AAK71828	Human immune/haema
C 203	18	2.9	24218	22	AAK71828	Human immune/haema
C 204	18	2.9	24218	22	AAK87556	Human immune/haema
C 205	18	2.9	24218	22	AAK87556	Human immune/haema
C 206	18	2.9	32190	22	AAK87556	Human immune/haema
C 207	18	2.9	32249	22	AAK87556	Human immune/haema
C 208	18	2.9	32249	22	AAK87556	Human immune/haema
C 209	18	2.9	34548	24	ABK70603	Human immune/haema
C 210	18	2.9	34548	24	ABK70603	Human immune/haema
C 211	18	2.9	39068	22	AAK71820	Human immune/haema
C 212	18	2.9	39068	22	AAK71820	Human immune/haema
C 213	18	2.9	39068	22	AAK71820	Human immune/haema
C 214	18	2.9	39110	22	AAK87544	Human immune/haema
C 215	18	2.9	39110	22	AAK87544	Human immune/haema
C 216	18	2.9	45300	22	AAK87555	Human immune/haema
C 217	18	2.9	45300	22	AAK87555	Human immune/haema
C 218	18	2.9	45300	22	AAK87555	Human immune/haema
C 219	18	2.9	45300	22	AAK87555	Human immune/haema
C 220	18	2.9	45300	22	AAK87555	Human immune/haema
C 221	18	2.9	47108	24	ABK31511	Human immune/haema
C 222	18	2.9	80240	20	AAK83940	Human immune/haema
C 223	18	2.9	80240	20	AAK83940	Human immune/haema
C 224	18	2.9	80595	20	AAK83940	Human immune/haema
C 225	18	2.9	107602	24	AAK96657	Human immune/haema
C 226	18	2.9	107612	24	ABK54503	Human immune/haema
C 227	18	2.9	126512	24	ABN83429	Human immune/haema
C 228	18	2.9	129021	21	AAK22296	Human immune/haema
C 229	18	2.9	154465	24	AAK28763	Human immune/haema
C 230	18	2.9	158245	24	AAK28763	Human immune/haema

C 229	18	2.9	161425	22	AAH02340	Human AKAP10 gene	C 302	17	2.8	738	22	AAH08255	Human CDNA clone (
C 230	18	2.9	162025	22	AAH02339	Human AKAP10 gene	C 303	17	2.8	745	24	ABQ28594	Oligonucleotide fo
C 231	18	2.9	162025	24	AAH028758	Human AKAP allele1c	C 304	17	2.8	745	24	ABQ28595	Oligonucleotide fo
C 232	18	2.9	162025	24	AAH028759	Human AKAP allele1c	C 305	17	2.8	752	20	AAH22232	Human secreted pro
C 233	18	2.9	174424	24	ABL68122	Ovary cancer relat	C 306	17	2.8	764	24	ABQ22030	Oligonucleotide fo
C 234	18	2.9	2155561	24	ABN71527	Streptococcus poly	C 307	17	2.8	764	24	ABQ22031	Oligonucleotide fo
C 235	17	2.8	193	22	AAK55130	Human immune/haema	C 308	17	2.8	787	22	AAI97435	Human neuroblastom
C 236	17	2.8	194	22	AAK65167	Human immune/haema	C 309	17	2.8	795	24	ABQ33774	Oligonucleotide fo
C 237	17	2.8	202	21	AAAC31488	Human secreted pro	C 310	17	2.8	795	24	ABQ33775	Oligonucleotide fo
C 238	17	2.8	204	22	AAAC32917	Human genomic DNA	C 311	17	2.8	820	20	AAI216411	Human gene express
C 239	17	2.8	204	22	AAI05568	Human reproductive	C 312	17	2.8	833	24	ABQ89438	Human prostate exp
C 240	17	2.8	204	22	AAI05569	Human reproductive	C 313	17	2.8	903	20	AAH37526	Human secreted pro
C 241	17	2.8	250	21	AAAC27953	Human secreted pro	C 314	17	2.8	930	22	AAH99416	Met A oligonucleot
C 242	17	2.8	251	18	AAI65079	Cantine genomic mic	C 315	17	2.8	1014	21	AAAC50500	Oligonucleotide fo
C 243	17	2.8	251	20	AAI17816	Microsatellite rep	C 316	17	2.8	1053	24	ABQ23726	Oligonucleotide fo
C 244	17	2.8	261	21	AAAC21158	Human secreted pro	C 317	17	2.8	1053	24	ABQ23727	Oligonucleotide fo
C 245	17	2.8	275	24	ABL661392	Lung cancer relate	C 318	17	2.8	1093	22	AAH94489	Human foetal cDNA,
C 246	17	2.8	294	16	AAI755203	Human gene signatu	C 319	17	2.8	1192	24	ABQ68954	Human prostate exp
C 247	17	2.8	357	23	AAV57320	Human prostate exp	C 320	17	2.8	1201	23	ABV21155	Human prostate exp
C 248	17	2.8	358	20	AAV90405	Human prostate exp	C 321	17	2.8	1201	23	ABV22339	Human prostate exp
C 249	17	2.8	372	22	AAI89036	Human prostate exp	C 322	17	2.8	1201	23	ABV22339	Human prostate exp
C 250	17	2.8	374	23	AAV10575	Human prostate exp	C 323	17	2.8	1230	21	AAAC40784	Arabidopsis thalia
C 251	17	2.8	376	23	AAV15266	Human prostate exp	C 324	17	2.8	1257	24	ABQ39832	Arabidopsis thalia
C 252	17	2.8	384	22	AAK78553	Human immune/haema	C 325	17	2.8	1257	24	ABQ39832	Oligonucleotide fo
C 253	17	2.8	384	22	AAK78553	Human immune/haema	C 326	17	2.8	1257	21	AAZ65031	Oligonucleotide fo
C 254	17	2.8	387	22	AAK78594	Human immune/haema	C 327	17	2.8	1297	22	AAZ65031	Membrane-bound pro
C 255	17	2.8	387	22	AAK78594	Human immune/haema	C 328	17	2.8	1297	22	AAZ65031	Human DNA encoding
C 256	17	2.8	394	21	AAFI0759	Fusarium venenatum	C 329	17	2.8	1297	22	AAFA4177	Human PRO791 (UNC4
C 257	17	2.8	401	23	AAV08960	Human prostate exp	C 330	17	2.8	1297	24	ABJ55531	Human angioogenesis
C 258	17	2.8	407	23	ABV18182	Human prostate exp	C 331	17	2.8	1297	24	ABJ55531	Human PRO791 CDNA
C 259	17	2.8	408	23	ABV01146	Human prostate exp	C 332	17	2.8	1302	21	AAAC47214	Arabidopsis thalia
C 260	17	2.8	411	23	ABV311745	Human prostate exp	C 333	17	2.8	1304	21	AAAC47214	Arabidopsis thalia
C 261	17	2.8	419	23	ABV38752	Human prostate exp	C 334	17	2.8	1307	21	AAH95779	Human immune syste
C 262	17	2.8	427	24	ABN163323	Human ORFX polynuc	C 335	17	2.8	1327	23	ABV25031	Human prostate exp
C 263	17	2.8	435	22	AAK75569	Human immune/haema	C 336	17	2.8	1350	21	AAH99029	Human TGC839 nucle
C 264	17	2.8	438	23	AAV38558	Human prostate exp	C 337	17	2.8	1362	21	AAH99031	Human TGC838 nucle
C 265	17	2.8	441	22	AAI29087	Colon tumour relat	C 338	17	2.8	1377	21	AAAC55190	Human secreted pro
C 266	17	2.8	446	23	ABV08698	Human prostate exp	C 339	17	2.8	1377	22	AAH35027	Human colon cancer
C 267	17	2.8	456	24	ABL93768	Arabidopsis thalia	C 340	17	2.8	1377	24	ABJ90714	Human polynucleoti
C 268	17	2.8	465	23	ABV47970	Human prostate exp	C 341	17	2.8	1382	23	ABJ13839	Drosophila melanog
C 269	17	2.8	467	21	AAZ80245	Human colon cancer	C 342	17	2.8	1386	24	ABH66714	Streptococcus poly
C 270	17	2.8	468	22	AAKS4063	Murine transport a	C 343	17	2.8	1467	21	AAAC38588	Arabidopsis thalia
C 271	17	2.8	471	24	ABJ93407	Arabidopsis thalia	C 344	17	2.8	1473	21	AAAC50315	Arabidopsis thalia
C 272	17	2.8	482	23	ABV36061	Human prostate exp	C 345	17	2.8	1534	22	AAI59549	Human polynucleoti
C 273	17	2.8	482	23	ABV45120	Human prostate exp	C 346	17	2.8	1535	21	AAZ93355	Sequence encoding
C 274	17	2.8	492	24	ABL84183	Human ovarian canc	C 347	17	2.8	1544	19	AAZ96343	S. pneumoniae deri
C 275	17	2.8	498	21	AAFI6346	Human prostate can	C 348	17	2.8	1650	23	AAH73204	DNA encoding novel
C 276	17	2.8	499	22	AAK79371	Human immune/haema	C 349	17	2.8	1706	20	AAH37335	Coffee storage pro
C 277	17	2.8	499	22	AAK79372	Human immune/haema	C 350	17	2.8	1707	21	AAZ52500	Human secreted pro
C 278	17	2.8	506	23	ABV07842	Human prostate exp	C 351	17	2.8	1711	21	AAAC47230	Arabidopsis thalia
C 279	17	2.8	507	24	ABQ40620	Oligonucleotide fo	C 352	17	2.8	1732	22	AAH91868	Human secreted pro
C 280	17	2.8	507	24	ABQ40621	Oligonucleotide fo	C 353	17	2.8	1834	24	ABH95801	Human ribosomal S1
C 281	17	2.8	507	24	ABL81025	Human ovarian canc	C 354	17	2.8	1841	22	AAI61335	Human neuroblastom
C 282	17	2.8	511	22	AAK77646	Human immune/haema	C 355	17	2.8	1913	24	ABQ70695	Oligonucleotide fo
C 283	17	2.8	531	23	ABV39274	Human prostate exp	C 356	17	2.8	1948	22	AAH75375	Listeria monocytog
C 284	17	2.8	554	23	ABV37767	Human prostate exp	C 357	17	2.8	1948	22	AAH45741	P. hybida pollen-
C 285	17	2.8	558	23	ABV40713	Human prostate exp	C 358	17	2.8	1951	22	AAAD05602	Pectinase zinc finge
C 286	17	2.8	560	24	ABL36936	Human colon tumour	C 359	17	2.8	1952	23	ABV24388	Human secreted pro
C 287	17	2.8	582	22	ABH64349	Human foetal liver	C 360	17	2.8	1952	23	ABV25185	Human prostate exp
C 288	17	2.8	586	20	AAK20480	Human secreted pro	C 361	17	2.8	2044	21	AAAC42156	Arabidopsis thalia
C 289	17	2.8	591	24	ABH63359	Human cancer relat	C 362	17	2.8	2104	24	ABK40080	Human chemicallly p
C 290	17	2.8	597	23	ABV54977	Human prostate exp	C 363	17	2.8	2210	22	AAH15867	Human CDNA sequenc
C 291	17	2.8	602	24	ABO66375	Arabidopsis thalia	C 364	17	2.8	2317	20	AAH97918	Human secreted pro
C 292	17	2.8	618	22	AAH31468	Human DNA for a no	C 365	17	2.8	2437	24	ABJ34351	Human immune syste
C 293	17	2.8	618	22	ABO66792	Human polynucleoti	C 366	17	2.8	2490	22	AAH15227	Human CDNA sequenc
C 294	17	2.8	629	24	ABQ36148	Oligonucleotide fo	C 367	17	2.8	2597	23	ABJ28050	Drosophila melanog
C 295	17	2.8	629	24	ABQ36149	Oligonucleotide fo	C 368	17	2.8	2650	22	AAH15780	Human CDNA sequenc
C 296	17	2.8	660	24	ABK63119	Rat sequence diffe	C 369	17	2.8	2702	23	ABJ27042	Drosophila melanog
C 297	17	2.8	661	22	AAAD05652	Human secreted pro	C 370	17	2.8	2766	19	AAV65261	DNA encoding a s.
C 298	17	2.8	698	24	ABQ26940	Oligonucleotide fo	C 371	17	2.8	2871	24	AAAD22001	Human transporters
C 299	17	2.8	698	24	ABQ26941	Oligonucleotide fo	C 372	17	2.8	2877	24	AAAD35393	Locus japonicus ja
C 300	17	2.8	700	22	AAH93255	Human inflammatory	C 373	17	2.8	2918	23	ABJ26904	Drosophila melanog
C 301	17	2.8	706	21	AAH36936	Arabidopsis thalia	C 374	17	2.8	2959	23	ABJ15368	Drosophila melanog

C 375	17	2.8	3022	23	ABL13806	Drosophila melanog	C 448	17	2.8	4444	23	ABV23412	Human prostate exp
C 376	17	2.8	3061	19	AAV29653	Human prostate can	C 449	17	2.8	4444	23	ABV24748	Human prostate exp
C 377	17	2.8	3061	20	AAV29653	US5182864 Seq ID N	C 450	17	2.8	4444	23	ABV24748	Human prostate exp
C 378	17	2.8	3061	21	AAZ87547	Prostatic acid pho	C 451	17	2.8	4444	23	ABV28561	Human prostate exp
C 379	17	2.8	3061	22	AAV28561	Biomarker UC band	C 452	17	2.8	4444	23	ABV28561	Human prostate exp
C 380	17	2.8	3091	23	ABL13188	Drosophila melanog	C 453	17	2.8	4444	23	ABV28561	Human prostate exp
C 381	17	2.8	3091	24	ABL15372	Drosophila melanog	C 454	17	2.8	4444	23	ABV28943	Human prostate exp
C 382	17	2.8	3097	23	ABL15372	Drosophila melanog	C 455	17	2.8	4444	23	ABV29177	Human prostate exp
C 383	17	2.8	3126	21	AAV28561	Arabidopsis thalia	C 456	17	2.8	4444	23	ABV29177	Human prostate exp
C 384	17	2.8	3126	21	AAV28561	Human wild-type ly	C 457	17	2.8	4444	23	ABV29270	Human prostate exp
C 385	17	2.8	3195	22	AAV28561	DNA encoding novel	C 458	17	2.8	4444	23	ABV29270	Human prostate exp
C 386	17	2.8	3278	23	AAV28561	Human CDNA sequenc	C 459	17	2.8	4444	23	ABV29796	Human prostate exp
C 387	17	2.8	3334	22	AAV28561	Coffee storage pro	C 460	17	2.8	4444	23	ABV29796	Human prostate exp
C 388	17	2.8	3477	20	AAV28561	Serine protease in	C 461	17	2.8	4444	23	ABV29796	Human prostate exp
C 389	17	2.8	3528	22	AAV28561	Drosophila melanog	C 462	17	2.8	4444	23	ABV29796	Human prostate exp
C 390	17	2.8	3531	20	AAV28561	Human serine prote	C 463	17	2.8	4444	23	ABV29796	Human prostate exp
C 391	17	2.8	3531	20	AAV28561	Serine protease in	C 464	17	2.8	4444	23	ABV29796	Human prostate exp
C 392	17	2.8	3540	24	ABV28561	Genomic DNA encodi	C 465	17	2.8	4444	23	ABV29796	Human prostate exp
C 393	17	2.8	3540	24	ABV28561	Degenerate DNA enc	C 466	17	2.8	4444	23	ABV29796	Human prostate exp
C 394	17	2.8	3708	13	AAQ23963	Probe Bty2. Bos t	C 467	17	2.8	4444	23	ABV29796	Human prostate exp
C 395	17	2.8	3725	23	ABV28561	Drosophila melanog	C 468	17	2.8	4444	23	ABV29796	Human prostate exp
C 396	17	2.8	3920	24	ABV28561	Human angiogenesis	C 469	17	2.8	4444	23	ABV29796	Human prostate exp
C 397	17	2.8	3920	24	ABV28561	Drosophila melanog	C 470	17	2.8	4444	23	ABV29796	Human prostate exp
C 398	17	2.8	3946	23	ABV28561	Tumour suppressor	C 471	17	2.8	4444	23	ABV29796	Human prostate exp
C 399	17	2.8	3952	22	AAV28561	Chemically treated	C 472	17	2.8	4444	23	ABV29796	Human prostate exp
C 400	17	2.8	3952	24	ABV28561	Signal transductio	C 473	17	2.8	4444	23	ABV29796	Human prostate exp
C 401	17	2.8	3952	24	ABV28561	Human prostate exp	C 474	17	2.8	4444	23	ABV29796	Human prostate exp
C 402	17	2.8	3952	24	ABV28561	Human prostate exp	C 475	17	2.8	4444	23	ABV29796	Human prostate exp
C 403	17	2.8	3952	24	ABV28561	Human prostate exp	C 476	17	2.8	4444	23	ABV29796	Human prostate exp
C 404	17	2.8	3952	24	ABV28561	Human prostate exp	C 477	17	2.8	4444	23	ABV29796	Human prostate exp
C 405	17	2.8	3952	24	ABV28561	Human prostate exp	C 478	17	2.8	4444	23	ABV29796	Human prostate exp
C 406	17	2.8	3952	24	ABV28561	Human prostate exp	C 479	17	2.8	4444	23	ABV29796	Human prostate exp
C 407	17	2.8	3952	24	ABV28561	Human prostate exp	C 480	17	2.8	4444	23	ABV29796	Human prostate exp
C 408	17	2.8	3952	24	ABV28561	Human prostate exp	C 481	17	2.8	4444	23	ABV29796	Human prostate exp
C 409	17	2.8	3952	24	ABV28561	Human prostate exp	C 482	17	2.8	4444	23	ABV29796	Human prostate exp
C 410	17	2.8	3952	24	ABV28561	Human prostate exp	C 483	17	2.8	4444	23	ABV29796	Human prostate exp
C 411	17	2.8	3952	24	ABV28561	Human prostate exp	C 484	17	2.8	4444	23	ABV29796	Human prostate exp
C 412	17	2.8	3952	24	ABV28561	Human prostate exp	C 485	17	2.8	4444	23	ABV29796	Human prostate exp
C 413	17	2.8	3952	24	ABV28561	Human prostate exp	C 486	17	2.8	4444	23	ABV29796	Human prostate exp
C 414	17	2.8	3952	24	ABV28561	Human prostate exp	C 487	17	2.8	4444	23	ABV29796	Human prostate exp
C 415	17	2.8	3952	24	ABV28561	Human prostate exp	C 488	17	2.8	4444	23	ABV29796	Human prostate exp
C 416	17	2.8	3952	24	ABV28561	Human prostate exp	C 489	17	2.8	4444	23	ABV29796	Human prostate exp
C 417	17	2.8	3952	24	ABV28561	Human prostate exp	C 490	17	2.8	4444	23	ABV29796	Human prostate exp
C 418	17	2.8	3952	24	ABV28561	Human prostate exp	C 491	17	2.8	4444	23	ABV29796	Human prostate exp
C 419	17	2.8	3952	24	ABV28561	Human prostate exp	C 492	17	2.8	4444	23	ABV29796	Human prostate exp
C 420	17	2.8	3952	24	ABV28561	Human prostate exp	C 493	17	2.8	4444	23	ABV29796	Human prostate exp
C 421	17	2.8	3952	24	ABV28561	Human prostate exp	C 494	17	2.8	4444	23	ABV29796	Human prostate exp
C 422	17	2.8	3952	24	ABV28561	Human prostate exp	C 495	17	2.8	4444	23	ABV29796	Human prostate exp
C 423	17	2.8	3952	24	ABV28561	Human prostate exp	C 496	17	2.8	4444	23	ABV29796	Human prostate exp
C 424	17	2.8	3952	24	ABV28561	Human prostate exp	C 497	17	2.8	4444	23	ABV29796	Human prostate exp
C 425	17	2.8	3952	24	ABV28561	Human prostate exp	C 498	17	2.8	4444	23	ABV29796	Human prostate exp
C 426	17	2.8	3952	24	ABV28561	Human prostate exp	C 499	17	2.8	4444	23	ABV29796	Human prostate exp
C 427	17	2.8	3952	24	ABV28561	Human prostate exp	C 500	17	2.8	4444	23	ABV29796	Human prostate exp
C 428	17	2.8	3952	24	ABV28561	Human prostate exp	C 501	17	2.8	4444	23	ABV29796	Human prostate exp
C 429	17	2.8	3952	24	ABV28561	Human prostate exp	C 502	17	2.8	4444	23	ABV29796	Human prostate exp
C 430	17	2.8	3952	24	ABV28561	Human prostate exp	C 503	17	2.8	4444	23	ABV29796	Human prostate exp
C 431	17	2.8	3952	24	ABV28561	Human prostate exp	C 504	17	2.8	4444	23	ABV29796	Human prostate exp
C 432	17	2.8	3952	24	ABV28561	Human prostate exp	C 505	17	2.8	4444	23	ABV29796	Human prostate exp
C 433	17	2.8	3952	24	ABV28561	Human prostate exp	C 506	17	2.8	4444	23	ABV29796	Human prostate exp
C 434	17	2.8	3952	24	ABV28561	Human prostate exp	C 507	17	2.8	4444	23	ABV29796	Human prostate exp
C 435	17	2.8	3952	24	ABV28561	Human prostate exp	C 508	17	2.8	4444	23	ABV29796	Human prostate exp
C 436	17	2.8	3952	24	ABV28561	Human prostate exp	C 509	17	2.8	4444	23	ABV29796	Human prostate exp
C 437	17	2.8	3952	24	ABV28561	Human prostate exp	C 510	17	2.8	4444	23	ABV29796	Human prostate exp
C 438	17	2.8	3952	24	ABV28561	Human prostate exp	C 511	17	2.8	4444	23	ABV29796	Human prostate exp
C 439	17	2.8	3952	24	ABV28561	Human prostate exp	C 512	17	2.8	4444	23	ABV29796	Human prostate exp
C 440	17	2.8	3952	24	ABV28561	Human prostate exp	C 513	17	2.8	4444	23	ABV29796	Human prostate exp
C 441	17	2.8	3952	24	ABV28561	Human prostate exp	C 514	17	2.8	4444	23	ABV29796	Human prostate exp
C 442	17	2.8	3952	24	ABV28561	Human prostate exp	C 515	17	2.8	4444	23	ABV29796	Human prostate exp
C 443	17	2.8	3952	24	ABV28561	Human prostate exp	C 516	17	2.8	4444	23	ABV29796	Human prostate exp
C 444	17	2.8	3952	24	ABV28561	Human prostate exp	C 517	17	2.8	4444	23	ABV29796	Human prostate exp
C 445	17	2.8	3952	24	ABV28561	Human prostate exp	C 518	17	2.8	4444	23	ABV29796	Human prostate exp
C 446	17	2.8	3952	24	ABV28561	Human prostate exp	C 519	17	2.8	4444	23	ABV29796	Human prostate exp
C 447	17	2.8	3952	24	ABV28561	Human prostate exp	C 520	17	2.8	4444	23	ABV29796	Human prostate exp



521	17	2.8	6712	24	ABLJ32690	Human immune syste
522	17	2.8	6740	24	ABLJ33147	Human immune syste
523	17	2.8	6767	22	ASG46608	Tumour suppressor
524	17	2.8	6845	22	ABLJ5759	Human muscloclele
525	17	2.8	6866	24	ABL49319	Human polynucleoti
526	17	2.8	6866	24	ABLJ32666	Human immune syste
527	17	2.8	6912	24	ABK28372	DNA transcription
528	17	2.8	6954	24	ABLJ3391	Human immune syste
529	17	2.8	6988	24	ABLJ4440	Human immune syste
530	17	2.8	7069	22	ASG46654	Tumour suppressor
531	17	2.8	7069	24	ABO65984	Human anglogenesis
532	17	2.8	7069	24	ABLJ70292	Chemically treated
533	17	2.8	7069	24	ABLJ3353	Human immune syste
534	17	2.8	7069	24	ASG61220	Human gene regulat
535	17	2.8	7069	24	ABKJ1319	Signal transductio
536	17	2.8	7108	24	ABKJ9996	Human chemically p
537	17	2.8	7143	24	ABLJ32982	Human immune syste
538	17	2.8	7272	22	ASG46357	Tumour suppressor
539	17	2.8	7317	22	ASG45342	Chemically pretrea
540	17	2.8	7317	24	ABK28173	DNA transcription
541	17	2.8	7317	24	ABLJ9648	Drosophila melanog
542	17	2.8	7340	23	ABLJ4828	Drosophila melanog
543	17	2.8	7341	24	ASG61394	Human gene regulat
544	17	2.8	7348	22	ASG46336	Tumour suppressor
545	17	2.8	7359	24	ABLJ33862	Human immune syste
546	17	2.8	7498	24	ABLJ32256	Human immune syste
547	17	2.8	7498	24	ABLJ32257	Human immune syste
548	17	2.8	7534	24	ABN80154	Human chemically m
549	17	2.8	7534	24	ABN80155	Human chemically m
550	17	2.8	7644	24	ABLJ32530	Human immune syste
551	17	2.8	7674	23	ABLJ9650	Drosophila melanog
552	17	2.8	7843	24	ABLJ70476	Chemically treated
553	17	2.8	7843	24	ASG61439	Human gene regulat
554	17	2.8	7843	24	ABKJ1505	Signal transductio
555	17	2.8	7880	24	ABJ70239	Chemically treated
556	17	2.8	7890	24	ASG61184	Human gene regulat
557	17	2.8	7982	23	ABL02334	Drosophila melanog
558	17	2.8	8056	22	ABK79815	Human immune/haema
559	17	2.8	8131	24	ABLJ2897	Human immune syste
560	17	2.8	8131	24	ASG63327	Chemically pretrea
561	17	2.8	8254	24	ABLJ32864	Human immune syste
562	17	2.8	8254	24	ABLJ32865	Human immune syste
563	17	2.8	8453	24	ABN80025	Human chemically m
564	17	2.8	8478	16	AAQ81792	B. subtilis biotin
565	17	2.8	8543	22	ASG45305	Chemically pretrea
566	17	2.8	8543	24	ABK28144	DNA transcription
567	17	2.8	8588	22	ASG45470	Chemically pretrea
568	17	2.8	8588	24	ABK28326	DNA transcription
569	17	2.8	8789	16	AAQ86851	Human mtocsin gene
570	17	2.8	8789	19	AAV09076	Mitocsin nucleic ac
571	17	2.8	8865	22	AAK87029	Human immune/haema
572	17	2.8	8897	24	ABLJ70228	Chemically treated
573	17	2.8	8943	24	ABKJ9967	Human chemically p
574	17	2.8	9176	23	ABLJ3200	Drosophila melanog
575	17	2.8	9180	24	ABLJ33964	Human immune syste
576	17	2.8	9238	24	ABK28365	DNA transcription
577	17	2.8	9370	22	AAJ07075	Human reproductive
578	17	2.8	9375	22	AAJ37084	Human muscloclele
579	17	2.8	9375	22	AAK84379	Human immune/haema
580	17	2.8	9384	22	ABA14819	Human immune/haema
581	17	2.8	9384	22	ASG28401	Genomic sequence #
582	17	2.8	9539	23	ABLJ5474	Drosophila melanog
583	17	2.8	9731	22	AAK72933	Human immune/haema
584	17	2.8	9731	22	AAK85096	Human immune/haema
585	17	2.8	9733	22	AAK72935	Human immune/haema
586	17	2.8	9733	22	AAK85097	Human immune/haema
587	17	2.8	9766	24	ABK69846	Human immune/haema
588	17	2.8	9832	24	ABLJ2656	Human secreted pro
589	17	2.8	9929	22	ABA17906	Human immune syste
590	17	2.8	10034	24	ABLJ3385	Human nervous syst
591	17	2.8	10039	24	ABLJ34062	Human immune syste
592	17	2.8	10096	24	ABK70292	Human lung cancer
593	17	2.8	10136	17	AAK74578	Kinetochoe protei
594	17	2.8	10144	24	ABL49393	Human polynucleoti
595	17	2.8	10190	24	ABK09755	Human ovarian tumo
596	17	2.8	10211	24	ABL65843	Lung cancer relat
597	17	2.8	10211	24	ABL67994	Ovary cancer relat
598	17	2.8	10281	24	AAK94846	Human DNA sequence
599	17	2.8	10326	24	ABLJ34167	Human immune syste
600	17	2.8	10433	24	ABLJ2379	Human immune syste
601	17	2.8	10443	23	ABL12312	Drosophila melanog
602	17	2.8	10622	23	ABL04256	Drosophila melanog
603	17	2.8	11186	24	ADJ36213	Human cytochrome P
604	17	2.8	11209	24	ABN80136	Human chemically m
605	17	2.8	11260	22	ASG45314	Chemically pretrea
606	17	2.8	11260	24	ABN80038	Human chemically m
607	17	2.8	11260	24	ABK28153	DNA transcription
608	17	2.8	11650	22	ASG46755	Tumour suppressor
609	17	2.8	11819	22	AAK81675	Human immune/haema
610	17	2.8	11836	22	ASG45294	Chemically pretrea
611	17	2.8	11836	24	ABK28239	DNA transcription
612	17	2.8	11870	22	AAJ07328	Human reproductive
613	17	2.8	11870	22	AAJ07329	Human reproductive
614	17	2.8	11870	22	AAK82242	Human immune/haema
615	17	2.8	11870	22	AAK82243	Human immune/haema
616	17	2.8	11870	22	AAK84792	Human immune/haema
617	17	2.8	11870	22	AAK84793	Human immune/haema
618	17	2.8	12237	24	ABLJ3458	Human immune syste
619	17	2.8	12278	22	ABA14585	Human nervous syst
620	17	2.8	12278	22	ABA14664	Human nervous syst
621	17	2.8	12356	22	ASG46510	Tumour suppressor
622	17	2.8	12396	23	ABLJ6560	Drosophila melanog
623	17	2.8	12669	24	ABLJ70490	Chemically treated
624	17	2.8	12669	24	ASG61449	Human gene regulat
625	17	2.8	12669	24	ABKJ1523	Signal transductio
626	17	2.8	12705	24	ABLJ32149	Human immune syste
627	17	2.8	12763	24	ABLJ32303	Human immune syste
628	17	2.8	13249	24	ABLJ70131	Chemically treated
629	17	2.8	13249	24	ABLJ32116	Human immune syste
630	17	2.8	13249	24	ABKJ1176	Signal transductio
631	17	2.8	13420	24	ABLJ2916	Human immune syste
632	17	2.8	13427	24	ABLJ33926	Human immune syste
633	17	2.8	13449	24	ABLJ33185	Human immune syste
634	17	2.8	13449	24	ABLJ3385	Human immune syste
635	17	2.8	13574	24	ABLJ33117	Human immune syste
636	17	2.8	13578	22	AAK81662	Human immune/haema
637	17	2.8	13909	23	ABL20392	Drosophila melanog
638	17	2.8	13948	22	AAK75938	Human immune/haema
639	17	2.8	13940	22	AAK75915	Human immune/haema
640	17	2.8	14253	24	ABLJ33494	Human tumor suppe
641	17	2.8	15399	24	ABLJ33514	Human immune syste
642	17	2.8	15518	24	ABLJ70607	Human immune syste
643	17	2.8	15518	24	ABLJ4172	Chemically treated
644	17	2.8	15518	24	ABLJ4624	Human immune syste
645	17	2.8	15674	24	ABLJ70514	Chemically treated
646	17	2.8	15674	24	ABLJ32363	Human immune syste
647	17	2.8	15674	24	ABLJ4477	Human immune syste
648	17	2.8	15782	24	ABK28135	DNA transcription
649	17	2.8	15861	24	ABLJ2525	Human immune syste
650	17	2.8	16167	24	ABLJ70253	Chemically treated
651	17	2.8	16167	24	ABLJ33082	Human immune syste
652	17	2.8	16167	24	ABLJ34528	Human metatasis a
653	17	2.8	16170	24	ABLJ33369	Human immune syste
654	17	2.8	16618	22	AAK34721	Human DNA for a no
655	17	2.8	16688	22	ASG46555	Tumour suppressor
656	17	2.8	16724	24	ABL70255	Chemically treated
657	17	2.8	16724	24	ABLJ33090	Human immune syste
658	17	2.8	16724	24	ABLJ33090	Human immune syste
659	17	2.8	16724	24	ABLJ33090	Human immune syste
660	17	2.8	17213	24	ABLJ34536	Human metatasis a
661	17	2.8	17213	24	ABO67017	Human immune syste
662	17	2.8	17419	22	ASG45392	Human anglogenesis
663	17	2.8	17419	24	ABLJ33294	Chemically pretrea
664	17	2.8	17419	24	ABK28237	Human immune syste
665	17	2.8	17677	22	AAK70506	DNA transcription
666	17	2.8	17677	22	AAK84095	Human immune/haema
666	17	2.8	17721	24	ABLJ33728	Human immune syste

667	17	2.8	18512	24	ABL32977	Human immune syste
668	17	2.8	19814	23	ABL70610	Chemically treated
669	17	2.8	20130	24	ABR24846	Drosophila melanog
670	17	2.8	20245	22	AAK72318	Human immune/haema
671	17	2.8	20245	24	ABK69845	Human secreted pro
672	17	2.8	20693	23	ABL16740	Drosophila melanog
673	17	2.8	21040	19	AAV52188	Streptococcus pneu
674	17	2.8	21537	24	ABL33999	Human immune syste
675	17	2.8	23468	23	ABL15064	Drosophila melanog
676	17	2.8	24939	24	ABL70569	Chemically treated
677	17	2.8	25393	22	ABK06806	Human genomic DNA
678	17	2.8	25393	22	AA528899	Human immunoglobul
679	17	2.8	25395	22	ABA06804	Human genomic DNA
680	17	2.8	25395	22	AA528887	Human immunoglobul
681	17	2.8	25395	22	AA528897	Human genomic DNA
682	17	2.8	25395	22	AA528897	Human immunoglobul
683	17	2.8	26928	24	ABA82520	Human immunoglobul
684	17	2.8	26928	24	ABK27179	Human HEM gene reg
685	17	2.8	28313	22	AA199267	Human high bone ma
686	17	2.8	32183	22	AA199267	Human musculskele
687	17	2.8	32183	22	AA163617	Human kidney relat
688	17	2.8	32189	22	AA163617	Human reproductive
689	17	2.8	32189	22	AA163617	Human angioogenesis
690	17	2.8	34688	24	ABK06700	Human angioogenesis
691	17	2.8	36568	24	ABK05080	Human solute carri
692	17	2.8	38342	22	AA546745	Signal transductio
693	17	2.8	38342	22	ABK31506	Human LKTI DNA cl
694	17	2.8	38653	22	AA544513	Human angioogenesis
695	17	2.8	40324	22	ABO67149	Human angioogenesis
696	17	2.8	45716	24	ABA93401	Human angioogenesis
697	17	2.8	45989	24	ABA93402	Human angioogenesis
698	17	2.8	48203	22	AAK70161	Human angioogenesis
699	17	2.8	48203	22	AAK81663	Human rTS-alpha ge
700	17	2.8	48203	22	AAK82628	Human immune/haema
701	17	2.8	48204	22	AAK70164	Human immune/haema
702	17	2.8	48204	22	AAK81666	Human immune/haema
703	17	2.8	48974	22	AAK82630	Human immune/haema
704	17	2.8	48974	22	AAK82630	Human immune/haema
705	17	2.8	56743	22	AAK68202	Human immune/haema
706	17	2.8	56743	22	AAK68202	Human immune/haema
707	17	2.8	65792	22	AAK68544	Human immune/haema
708	17	2.8	73334	24	ABL92318	Human immune/haema
709	17	2.8	73334	24	ABL92319	Human immune/haema
710	17	2.8	73334	24	ABL92319	Human immune/haema
711	17	2.8	73334	24	ABL92319	Human immune/haema
712	17	2.8	84539	24	ABL4125	Human immune syste
713	17	2.8	84539	24	ABL4125	Human immune syste
714	17	2.8	89328	24	ABL64158	Stomach cancer rel
715	17	2.8	97662	22	AAK61995	Colon adenocarcino
716	17	2.8	110096	24	ABN95044	Gene #1542 used to
717	17	2.8	113515	24	ABL34175	Human immune syste
718	17	2.8	121162	21	AAK66548	Human kinesin-like
719	17	2.8	147419	24	ABK83574	Human CDNA differe
720	17	2.8	165199	24	ABK83460	Human CDNA differe
721	17	2.8	183999	22	AAK62831	Human ABC1 genomic
722	17	2.8	236303	22	AAK62831	Human ABC1 genomic
723	17	2.8	305107	22	AAK62831	Human ABC1 genomic
724	17	2.8	513445	22	AAK62831	Human ABC1 genomic
725	17	2.8	1163020	24	ABO67197	Shrimp white spot
726	17	2.8	60	24	ABN50177	Shrimp white spot
727	17	2.8	67	21	AAK22181	Human secreted pro
728	17	2.8	68	21	ABN81002	Human secreted pro
729	17	2.8	72	13	AAQ27464	Shrimp polynucleot
730	17	2.8	90	21	AAK15677	HSA secretion sign
731	17	2.8	92	21	AAK15677	Human secreted pro
732	17	2.8	95	16	AAK15679	Human secreted pro
733	17	2.8	101	24	AAK15679	Human secreted pro
734	17	2.8	118	21	AAK25314	Human gene signatu
735	17	2.8	123	23	ABV07491	Human gene signatu
736	17	2.8	143	24	ABL76465	Human prostate pro
737	17	2.8	145	22	AAK32528	Human prostate pro
738	17	2.8	149	21	AAK20235	Human prostate pro
739	17	2.8	152	21	AAK04774	Human secreted pro
740	16	2.6	152	21	AAK14142	Human secreted pro
741	16	2.6	152	21	AAK14632	Human secreted pro
742	16	2.6	153	21	AAK16724	Human secreted pro
743	16	2.6	154	21	AAK21040	Human secreted pro
744	16	2.6	164	22	AAK59016	Human immune/haema
745	16	2.6	166	21	AAK20284	Human secreted pro
746	16	2.6	168	22	AAK20284	Human secreted pro
747	16	2.6	173	14	AAQ46073	Human reproductive
748	16	2.6	173	22	AAK67779	Sequence of downst
749	16	2.6	178	23	ABV17274	Downstream sequenc
750	16	2.6	186	21	AAK22610	Human prostate exp
751	16	2.6	187	21	AAK22471	Human secreted pro
752	16	2.6	192	23	ABV34545	Human secreted pro
753	16	2.6	193	21	AAK29978	Human prostate exp
754	16	2.6	201	24	ABL1496	Cis-acting element
755	16	2.6	206	18	AAK65073	Human ovarian can
756	16	2.6	206	18	AAK65073	Canine genomic mic
757	16	2.6	206	18	AAK65073	Microsatellite rep
758	16	2.6	206	18	AAK65073	Soybean 318013 reg
759	16	2.6	206	18	AAK65073	Soybean 318013 reg
760	16	2.6	214	16	AAK24310	Human gene signatu
761	16	2.6	214	16	AAK24310	Human prostate exp
762	16	2.6	214	16	AAK24310	Human secreted exp
763	16	2.6	214	16	AAK24310	Human secreted exp
764	16	2.6	225	21	AAK04912	Human secreted exp
765	16	2.6	227	23	ABV58030	Human secreted exp
766	16	2.6	229	21	AAK45877	Human secreted exp
767	16	2.6	231	21	AAK04494	Human secreted exp
768	16	2.6	235	21	AAK27095	Human secreted exp
769	16	2.6	235	21	AAK41853	Human secreted pro
770	16	2.6	240	21	AAK13564	Human secreted pro
771	16	2.6	240	21	AAK13757	Human secreted pro
772	16	2.6	260	23	ABV43518	Human secreted exp
773	16	2.6	263	21	AAK03099	Human prostate exp
774	16	2.6	269	21	AAK03099	Human prostate exp
775	16	2.6	269	21	AAK03099	Human secreted pro
776	16	2.6	269	21	AAK03099	Human secreted pro
777	16	2.6	275	24	ABL81998	CDNA encoding nove
778	16	2.6	278	22	AAK59778	Human digestive sy
779	16	2.6	283	21	AAK04826	Human ovarian can
780	16	2.6	285	20	AAK04826	Human polynucleoti
781	16	2.6	288	22	AAK88948	Human immune/haema
782	16	2.6	291	21	ABN81052	Human secreted pro
783	16	2.6	293	21	AAK05801	Human polynucleoti
784	16	2.6	297	23	ABV47069	Shrimp polynucleot
785	16	2.6	297	23	ABV47069	Human secreted pro
786	16	2.6	298	23	AAK14889	Human polynucleoti
787	16	2.6	300	20	AAK14889	Human prostate exp
788	16	2.6	300	20	AAK14889	Human prostate exp
789	16	2.6	300	20	AAK14889	Human prostate exp
790	16	2.6	300	20	AAK14889	Human prostate exp
791	16	2.6	300	20	AAK14889	Human prostate exp
792	16	2.6	300	20	AAK14889	Human prostate exp
793	16	2.6	300	20	AAK14889	Human prostate exp
794	16	2.6	300	20	AAK14889	Human prostate exp
795	16	2.6	300	20	AAK14889	Human prostate exp
796	16	2.6	300	20	AAK14889	Human prostate exp
797	16	2.6	300	20	AAK14889	Human prostate exp
798	16	2.6	300	20	AAK14889	Human prostate exp
799	16	2.6	300	20	AAK14889	Human prostate exp
800	16	2.6	300	20	AAK14889	Human prostate exp
801	16	2.6	300	20	AAK14889	Human prostate exp
802	16	2.6	300	20	AAK14889	Human prostate exp
803	16	2.6	300	20	AAK14889	Human prostate exp
804	16	2.6	300	20	AAK14889	Human prostate exp
805	16	2.6	300	20	AAK14889	Human prostate exp
806	16	2.6	300	20	AAK14889	Human prostate exp
807	16	2.6	300	20	AAK14889	Human prostate exp
808	16	2.6	300	20	AAK14889	Human prostate exp
809	16	2.6	300	20	AAK14889	Human prostate exp
810	16	2.6	300	20	AAK14889	Human prostate exp
811	16	2.6	300	20	AAK14889	Human prostate exp
812	16	2.6	300	20	AAK14889	Human prostate exp

C 813	16	2.6	329	22	AA190344	Human polynucleoti
C 814	16	2.6	330	22	AA538058	Novel human diagno
C 815	16	2.6	330	22	AA191961	Human polynucleoti
C 816	16	2.6	332	22	AA182716	Human polynucleoti
C 817	16	2.6	332	22	AAH93305	Plasmodium falcipar
C 818	16	2.6	339	16	AA722630	Human gene signatu
C 819	16	2.6	341	22	AA539934	Genomic sequence #
C 820	16	2.6	341	22	AA182886	Human polynucleoti
C 821	16	2.6	341	22	AAK75093	Human immune/haema
C 822	16	2.6	341	22	AAK75094	Human immune/haema
C 823	16	2.6	341	22	AAK90378	Human digestive sy
C 824	16	2.6	345	24	AA181805	Human ORF polynuc
C 825	16	2.6	346	22	AA187279	Human polynucleoti
C 826	16	2.6	348	22	AAH36014	Human colon cancer
C 827	16	2.6	349	22	AA189583	Human polynucleoti
C 828	16	2.6	352	14	AAO59500	Human brain Expres
C 829	16	2.6	352	21	AAK74246	Lobolilly pine SSR
C 830	16	2.6	352	21	AAO00643	Human secreted pro
C 831	16	2.6	352	24	AAK22701	Human ORF polynuc
C 832	16	2.6	353	20	AAV89188	Human prostate exp
C 833	16	2.6	356	23	ABV12213	Human prostate exp
C 834	16	2.6	357	24	ABN22803	Human ORF polynuc
C 835	16	2.6	359	22	AA180268	Human polynucleoti
C 836	16	2.6	360	23	ABV04405	Human prostate exp
C 837	16	2.6	360	23	ABV07801	Human prostate exp
C 838	16	2.6	361	22	AA100373	Human reproductive
C 839	16	2.6	361	22	AA186138	Human polynucleoti
C 840	16	2.6	361	22	AAK74908	Human immune/haema
C 841	16	2.6	361	22	AAK77085	Human immune/haema
C 842	16	2.6	363	24	ABK38840	CDNA encoding lung
C 843	16	2.6	364	24	AAK59754	Human immune/haema
C 844	16	2.6	364	24	ABK38829	CDNA encoding lung
C 845	16	2.6	365	22	AAK81731	Human immune/haema
C 846	16	2.6	366	22	AAK58261	Human breast cance
C 847	16	2.6	367	22	AA117764	CDNA encoding lung
C 848	16	2.6	367	24	ABK39105	CDNA encoding lung
C 849	16	2.6	367	24	ABK39588	Human breast cance
C 850	16	2.6	368	22	AA110576	Human breast cance
C 851	16	2.6	368	24	ABO85524	Arabidopsis thalia
C 852	16	2.6	368	24	ABK38965	CDNA encoding lung
C 853	16	2.6	368	24	ABK39006	CDNA encoding lung
C 854	16	2.6	368	24	ABK39006	CDNA encoding lung
C 855	16	2.6	368	24	ABK39054	CDNA encoding lung
C 856	16	2.6	368	24	ABK39126	CDNA encoding lung
C 857	16	2.6	368	24	ABK39546	CDNA encoding lung
C 858	16	2.6	369	22	AA184074	Human polynucleoti
C 859	16	2.6	369	23	ABV11713	Human prostate exp
C 860	16	2.6	371	23	ABV03044	Human prostate exp
C 861	16	2.6	372	22	AA180729	Human polynucleoti
C 862	16	2.6	372	22	AA183395	Human polynucleoti
C 863	16	2.6	373	18	AA769154	Trypanosoma cruzi
C 864	16	2.6	373	20	AAK81743	DNA encoding a T
C 865	16	2.6	374	22	AA186270	Human polynucleoti
C 866	16	2.6	374	24	ABN97012	Gene #3510 used to
C 867	16	2.6	375	22	AA183872	Human polynucleoti
C 868	16	2.6	377	21	AAH30923	Human colon cancer
C 869	16	2.6	377	22	AA180435	Human polynucleoti
C 870	16	2.6	378	24	ABN64902	Human cancer relat
C 871	16	2.6	378	24	AB185085	Human ovarian canc
C 872	16	2.6	379	22	AAH34099	Human colon cancer
C 873	16	2.6	380	22	AAH17643	Human breast cance
C 874	16	2.6	381	23	ABV48657	Human prostate exp
C 875	16	2.6	384	24	AB183974	Human ovarian can
C 876	16	2.6	386	22	AA101612	Human reproductive
C 877	16	2.6	388	22	AA181345	Human polynucleoti
C 878	16	2.6	389	22	AA180075	Human polynucleoti
C 879	16	2.6	389	22	AA183856	Human polynucleoti
C 880	16	2.6	389	24	ABN25932	Human ORF polynuc
C 881	16	2.6	391	22	AA117651	Human breast cance
C 882	16	2.6	391	22	AA190037	Human polynucleoti
C 883	16	2.6	394	14	AAO46000	NPS-326. Tegenari
C 884	16	2.6	394	16	AAO96070	Polypeptide compon
C 885	16	2.6	394	19	AAV25917	Tegenaria agrestis
C 886	16	2.6	394	24	ABN95557	Gene #2055 used to
C 887	16	2.6	395	22	AA110568	Human breast cance
C 888	16	2.6	396	22	AA189002	Human polynucleoti
C 889	16	2.6	396	24	ABN96766	Gene #3264 used to
C 890	16	2.6	396	24	ABN77945	Human ORF2892 cDNA
C 891	16	2.6	397	22	AAK76988	Human immune/haema
C 892	16	2.6	397	22	AAK76989	Human immune/haema
C 893	16	2.6	398	14	AAO46001	NPS-331. Tegenari
C 894	16	2.6	398	16	AAO96073	Polypeptide compon
C 895	16	2.6	398	19	AAV25920	Tegenaria agrestis
C 896	16	2.6	399	21	AAK23997	Human secreted pro
C 897	16	2.6	400	22	AA184626	Human polynucleoti
C 898	16	2.6	401	22	AAK96224	Human neuregulin g
C 899	16	2.6	401	22	AAK97117	Human neuregulin g
C 900	16	2.6	401	22	AA181262	Human polynucleoti
C 901	16	2.6	402	14	ABM63179	Human cancer relat
C 902	16	2.6	402	14	AAO59630	Human brain Expres
C 903	16	2.6	402	23	ABV16611	Human prostate exp
C 904	16	2.6	404	23	ABV33358	Human prostate exp
C 905	16	2.6	404	23	ABV42281	Human prostate exp
C 906	16	2.6	405	24	ABK95405	Human retina speci
C 907	16	2.6	406	21	AAO00695	Human secreted pro
C 908	16	2.6	406	22	AA180165	Human polynucleoti
C 909	16	2.6	407	23	ABV37726	Human prostate exp
C 910	16	2.6	407	23	AB182100	Human ovarian can
C 911	16	2.6	408	22	AA189956	Human polynucleoti
C 912	16	2.6	410	23	ABV13810	Human prostate exp
C 913	16	2.6	410	23	ABV14692	Human prostate exp
C 914	16	2.6	410	23	ABV32858	Human prostate exp
C 915	16	2.6	410	23	ABV41783	Human prostate exp
C 916	16	2.6	411	23	ABV04641	Human prostate exp
C 917	16	2.6	411	23	ABV16730	Human prostate exp
C 918	16	2.6	411	23	ABV53899	Human prostate exp
C 919	16	2.6	412	21	AAK39746	Zea mays DNA fragm
C 920	16	2.6	413	12	AAO13400	Mouse u6 intranuci
C 921	16	2.6	413	22	AA181756	Human polynucleoti
C 922	16	2.6	413	22	AA191772	Human polynucleoti
C 923	16	2.6	415	23	ABV16645	Human prostate exp
C 924	16	2.6	415	23	ABV19971	Human prostate exp
C 925	16	2.6	415	24	ABN96629	Gene #3127 used to
C 926	16	2.6	417	23	ABV17807	Human prostate exp
C 927	16	2.6	418	22	AA100952	Human reproductive
C 928	16	2.6	418	22	AA181105	Human polynucleoti
C 929	16	2.6	418	23	AB186422	Human testicular a
C 930	16	2.6	419	23	ABV13400	Human prostate exp
C 931	16	2.6	420	22	AA185653	Human polynucleoti
C 932	16	2.6	420	24	AB184117	Human ovarian can
C 933	16	2.6	427	23	ABV14673	Human prostate exp
C 934	16	2.6	428	22	AA191354	Human polynucleoti
C 935	16	2.6	430	22	AAK85081	Human immune/haema
C 936	16	2.6	430	23	ABV17208	Human prostate exp
C 937	16	2.6	431	24	AA141876	Human li beta-hydr
C 938	16	2.6	433	22	AA180712	Human polynucleoti
C 939	16	2.6	434	21	AAV74218	Lobolilly pine SSR
C 940	16	2.6	437	21	AAK27501	Human secreted pro
C 941	16	2.6	437	23	AAO78827	Human prostate exp
C 942	16	2.6	437	24	ABN65306	Human cancer relat
C 943	16	2.6	440	22	AA536131	Human cardiovascular
C 944	16	2.6	441	21	AA15735	Human prostate can
C 945	16	2.6	441	21	AAK28871	Human secreted pro
C 946	16	2.6	446	21	AA18098	Lung cancer associ
C 947	16	2.6	451	23	ABV34922	Human prostate exp
C 948	16	2.6	451	23	ABV43771	Human prostate exp
C 949	16	2.6	451	24	ABN76376	Human ORF1323 cDNA
C 950	16	2.6	453	22	ABO08129	Human ovarian and
C 951	16	2.6	453	22	ABO08130	Human ovarian and
C 952	16	2.6	453	22	ABO08131	Human ovarian and
C 953	16	2.6	453	22	AA536133	Human cardiovascular
C 954	16	2.6	453	22	AA106910	Human reproductive
C 955	16	2.6	453	22	AA106911	Human reproductive
C 956	16	2.6	453	22	AA106912	Human reproductive
C 957	16	2.6	453	23	ABV47697	Human prostate exp
C 958	16	2.6	454	22	AAV93665	CDNA encoding SRT





CC This sequence represents a fragment of the coding sequence of the rice  
 CC phospholipase D gene (PLD). The promoter for the PLD gene was isolated  
 CC using the primers shown in AAT42857 and AAT42588. The promoters (see  
 CC AAT42851 and AAT42852) are efficient promoters for greatly increasing the  
 CC expression of foreign genes in transformant rice and other plants.

XX Sequence 2799 BP; 692 A; 709 C; 609 G; 789 T; 0 other;

Query Match 100.0%; Score 614; DB 17; Length 2799;  
 Best Local Similarity 100.0%; Pred. No. 3, 5e-286;  
 Matches 614; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CCGGCGCCGCGGAGCGCCCAAGTTCATCCGAGGTTGCGACCCCTTCTCTTATCT 60
DB 1947 CCGGCGCCGCGGAGCGCCCAAGTTCATCCGAGGTTGCGACCCCTTCTCTTATCT 2006
QY 61 ACTGCTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
DB 2007 ACTGCTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2066
QY 121 AGCCCGAATTTGATCTGCTAGTGCAGTACAGTACATCAGTACGAAAGATCTGGAAT 180
DB 2067 AGCCCGAATTTGATCTGCTAGTGCAGTACAGTACATCAGTACGAAAGATCTGGAAT 2126
QY 181 TCTGATTATTAAGAAATAAAGAGTACTAGCAAGAAATTTGAGATCTTCTATCAA 240
DB 2127 TCTGATTATTAAGAAATAAAGAGTACTAGCAAGAAATTTGAGATCTTCTATCAA 2186
QY 241 GATTGCTATTTATGCTTGCCATTTCTTGTGACCCCAAGTCTCTTGTGATCTAAG 300
DB 2187 GATTGCTATTTATGCTTGCCATTTCTTGTGACCCCAAGTCTCTTGTGATCTAAG 2246
QY 301 TTGCTGTGTGATGATGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 360
DB 2247 TTGCTGTGTGATGATGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2306
QY 361 AAATTTTATTTATTAACGACCTACTAAATAAGTAGAGTCTCTGAGTGTGTGTGTGT 420
DB 2307 AAATTTTATTTATTAACGACCTACTAAATAAGTAGAGTCTCTGAGTGTGTGTGTGT 2366
QY 421 TGTGTACCAAAATTTGATTTGATAGAGTTTATTTATTTATTTATTTATTTATTTAT 480
DB 2367 TGTGTACCAAAATTTGATTTGATAGAGTTTATTTATTTATTTATTTATTTATTTAT 2426
QY 481 AAATCTATTTGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATG 540
DB 2427 AAATCTATTTGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATGCTATG 2486
QY 541 GTTGTCTTGAATCTTAACAGCTGAGCTCATGTCAACAGTTTGTGAGGGGATTTGAGAC 600
DB 2487 GTTGTCTTGAATCTTAACAGCTGAGCTCATGTCAACAGTTTGTGAGGGGATTTGAGAC 2546
QY 601 TGTGGGTGTGGCA 614
DB 2547 TGTGGGTGTGGCA 2560

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## RESULT 4

AAF82185  
 ID AAF82185 standard; DNA; 540 BP.

XX AAF82185;  
 AC  
 XX  
 DT 02-JUL-2001 (first entry)  
 XX  
 DE Rice structural gene expression promoting polynucleotide SEQ ID NO.1.  
 XX  
 KW Rice; structural gene expression promotion; breeding; modification;  
 XX plant; ds.  
 XX  
 OS Oryza sativa.  
 XX  
 PN MO200123544-A1.

XX  
 PD 05-APR-2001.  
 XX  
 PF 25-SEP-2000; 2000WO-JP06560.  
 XX  
 PR 27-SEP-1999; 99JP-0271762.  
 XX  
 PA (NISB) JAPAN TOBACCO INC.  
 XX  
 PI Ueki J, Morioka S;  
 XX  
 DR WPI; 2001-266148/27.

PT New nucleic acid fragment useful for promoting expression of structural  
 PT gene located downstream, useful in breeding, modifying and improving  
 PT plants with foreign gene introduced

PS Claim 1; Page 8; 12pp; Japanese.

CC The present sequence represents a rice nucleic acid fragment (I) which  
 CC promotes the expression of a structural gene located downstream, where  
 CC (I) is superior in promoting expression of structural gene located  
 CC downstream. Also described are: (1) a recombinant vector containing any  
 CC of the nucleic acid fragment and at least 1 structural gene at its  
 CC downstream; (2) promoting expression of a structural gene by inserting  
 CC the nucleic acid fragment to its upstream; and (3) plants or their  
 CC descendants who can sustain the transformation is promoting expression  
 CC of desired structural genes by the above method. (I) can be used in  
 CC breeding, modifying and improving plants with foreign genes introduced.

XX Sequence 540 BP; 132 A; 94 C; 104 G; 210 T; 0 other;

Query Match 87.9%; Score 540; DB 22; Length 540;  
 Best Local Similarity 100.0%; Pred. No. 1, 8e-250;  
 Matches 540; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 38 GTTCGACCCCTTCTCTTATCTACTGCTTGTCTCTCTCTCTCTCTCTCTCTCTCTCT 97
DB 1 GTTCGACCCCTTCTCTTATCTACTGCTTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 60
QY 98 TTTCTTGTGTGCGTTTGCAAGCCCAATTTGATGCTGTAGGACAGTACAGTAC 157
DB 61 TTTCTTGTGTGCGTTTGCAAGCCCAATTTGATGCTGTAGGACAGTACAGTAC 120
QY 158 ATACACTGAAACGATCTGGAATTTCTGATTTATAGAAATAAAGAGTAGTAGCAA 217
DB 121 ATACACTGAAACGATCTGGAATTTCTGATTTATAGAAATAAAGAGTAGTAGCAA 180
QY 218 GAATTTGAGATATCTTCTATCAAGATTTGCTATTTATTTATTTATTTATTTATTTAT 277
DB 181 GAATTTGAGATATCTTCTATCAAGATTTGCTATTTATTTATTTATTTATTTATTTAT 240
QY 278 CAAGTACTCTTTTGAATCTAGAGTTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 337
DB 241 CAAGTACTCTTTTGAATCTAGAGTTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 300
QY 338 AAAATCTTCATTAGCTAAACGTAATTTATTTATTTATTTATTTATTTATTTATTTAT 397
DB 301 AAAATCTTCATTAGCTAAACGTAATTTATTTATTTATTTATTTATTTATTTATTTAT 360
QY 398 GTTCTCTGTGTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 457
DB 361 GTTCTCTGTGTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420
QY 458 TTATTTATTTAGTACCTACTACAAATCTATTTGCTATGCTATGCTATGCTATGCTATG 517
DB 421 TTATTTATTTAGTACCTACTACAAATCTATTTGCTATGCTATGCTATGCTATGCTATG 480
QY 518 TGAATGCAATGCTCTTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 577
DB 481 TGAATGCAATGCTCTTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 540

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RESULT 5
AA086783
ID AA086783 standard; cDNA to mRNA; 3040 BP.
XX
AC AA086783;
XX
DT 01-MAR-1996 (first entry)
XX
DE DNA encoding phospholipase D.
XX
KM phospholipase D; measurement; reagent; phospholipid level; ss.
XX
OS Oryza sativa.
XX
FH Key Location/Qualifiers
FT CDS 182..2620
FT /*tag= a
FT /product= phospholipase D
XX
PN WO9509234-A1.
XX
PD 06-APR-1995.
XX
PF 30-SEP-1994; 94WO-JP01627.
XX
PR 30-SEP-1993; 93JP-0267884.
XX
PA (NISR ) JAPAN TOBACCO INC.
XX
PI Morioka S, Ueki J;
XX
DR WPI; 1995-147433/19.
DR P-PSDB; AAR72797.
XX
XX
PT Cloned DNA coding plant derived phospholipase D - controls
PT expression of plant derived PLD gene
XX
XX
PS Claim 7; Page 14-19; 41pp; Japanese.
XX
CC The DNA encodes a plant derived phospholipase D (PLD). The PLD is
CC useful for measuring phospholipid levels and for producing derivs.
CC by e.g. base exchange reactions. DNA controlling the expression of
CC the plant derived PLD is also claimed and shown in AA086785.
XX
SQ Sequence 3040 BP; 784 A; 724 C; 783 G; 749 T; 0 other;

Query Match 6.4%; Score 39; DB 16; Length 3040;
Best Local Similarity 100.0%; Pred. No. 7.7e-09;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 576 AGTTGTGAGGAGATTGAGACACTGTGGGTGCGCA 614
    |||||||||||||||||||||||||||||||||||
DB 288 AGTTGTGAGGAGATTGAGACACTGTGGGTGCGCA 326

RESULT 6
AAT42853
ID AAT42853 standard; cDNA to mRNA; 3040 BP.
XX
AC AAT42853;
XX
DT 16-JUN-1997 (first entry)
XX
DE Phospholipase D protein coding sequence.
XX
KM Phospholipase D; rice; promoter; ss.
XX
OS Oryza sativa.
XX
FH Key Location/Qualifiers
FT CDS 181..2620
FT /*tag= a
FT /product= phospholipase D

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XX
PN WO9630510-A1.
XX
PD 03-OCT-1996.
XX
PF 28-MAR-1996; 96WO-JP00812.
XX
PR 29-MAR-1995; 95JP-0096126.
XX
PA (NISR ) JAPAN TOBACCO INC.
XX
PI Morioka S, Ueki J;
XX
DR WPI; 1996-455357/45.
DR P-PSDB; AAW06134.
XX
PT Promoter DNA sequence derived from rice - used to increase
PT expression of foreign genes in transformed hosts
XX
PS Disclosure; Page 14-20; 29pp; Japanese.
XX
CC This sequence represents the coding sequence for the rice phospholipase
CC D gene (PLD). The promoter for the PLD gene was isolated using the
CC primers shown in AAT42857 and AAT42588. The promoters (see AAT42851 and
CC AAT42852) are efficient promoters for greatly increasing the expression
CC of foreign genes in transformant rice and other plants.
XX
SQ Sequence 3040 BP; 784 A; 724 C; 783 G; 749 T; 0 other;

Query Match 6.4%; Score 39; DB 17; Length 3040;
Best Local Similarity 100.0%; Pred. No. 7.7e-09;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 576 AGTTGTGAGGAGATTGAGACACTGTGGGTGCGCA 614
    |||||||||||||||||||||||||||||||||||
DB 288 AGTTGTGAGGAGATTGAGACACTGTGGGTGCGCA 326

RESULT 7
AAT85509
ID AAT85509 standard; cDNA to mRNA; 3040 BP.
XX
AC AAT85509;
XX
DT 23-MAR-1998 (first entry)
XX
DE Phospholipase D encoding cDNA.
XX
KM Phospholipase D; phospholipid; food; medicine; rice plant;
KM monocolyledon; ds.
XX
OS Oryza sativa.
XX
FH Key Location/Qualifiers
FT CDS 182..2620
FT /*tag= a
FT /product= Phospholipase_D
XX
PN WO9731106-A1.
XX
PD 28-AUG-1997.
XX
PF 20-FEB-1997; 97WO-JP00466.
XX
PR 21-FEB-1996; 96JP-0058320.
XX
PA (NISR ) JAPAN TOBACCO INC.
XX
PI Morioka S, Ueki J;
XX
DR WPI; 1997-435159/40.
DR P-PSDB; AAW25675.
XX

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PT Changing the composition of phospholipid(s) produced by host cells -
PT produces phospholipid(s) of better usability than natural
PT phospholipid(s), applicable in food, medicine etc.
XX
XX Example 1; Page 12-17; 22pp; Japanese.
PS
CC A novel method has been developed for changing the composition of
CC phospholipids produced by host cells. The method comprises transforming
CC host cells with a recombinant DNA having a sequence antisense to the
CC phospholipase D gene which generates mRNA which prevents the expression
CC of phospholipase D gene by hybridizing with the phospholipase D mRNA
CC from the host cell, and expressing the antisense gene in the host cells.
CC The present sequence encodes phospholipase D, which was isolated from
CC rice. Changing the composition of phospholipids produced by host cells,
CC produces phospholipids of better usability than natural phospholipids,
CC applicable in food, medicine.
XX
SQ Sequence 3040 BP; 784 A; 724 C; 783 G; 749 T; 0 other;

Query Match
Best Local Similarity 100.0%; Score 39; DB 18; Length 3040;
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 576 AGTTGTGAGGGGATTGAGACACTGTGGGTGCGCA 614
Db 288 AGTTGTGAGGGGATTGAGACACTGTGGGTGCGCA 326

RESULT 8
AA086784
ID AA086784 standard; cDNA to mRNA; 2708 BP.
XX
AC AA086784;
XX
DT 04-MAR-1996 (first entry)
XX
DE DNA encoding Phospholipase D.
XX
KW phospholipase D; measurement; reagent; phospholipid level; ss.
XX
OS Zea mays.
XX
FH Key Location/Qualifiers
FT CDS 107..2449
FT /tag=a
FT /product= phospholipase D
XX
XX
XX WO9509234-A1.
XX
XX 06-APR-1995.
XX
XX 30-SEP-1994; 94WO-JP01627.
XX
XX 30-SEP-1993; 93JP-0267884.
XX
XX (NISR ) JAPAN TOBACCO INC.
XX
XX Morioka S, Ueki J;
XX
XX WPI; 1995-147433/19.
XX
XX P-PSDB; AAR12798.
XX
XX
XX Claim 9; Page 23-29; 41pp; Japanese.
XX
XX The DNA encodes a plant derived phospholipase D (PLD). The PLD is
XX useful for measuring phospholipid levels and for producing derivs.
XX by e.g. base exchange reactions. DNA controlling the expression of
XX the plant derived PLD is also claimed and shown in AA086785.
XX
XX Sequence 2708 BP; 636 A; 709 C; 774 G; 589 T; 0 other;

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Query Match
Best Local Similarity 100.0%; Score 23; DB 16; Length 2708;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 GGGCCCCCAAGTTCATCGCAAG 37
Db 192 GGGCCCCCAAGTTCATCGCAAG 214

RESULT 9
AB119474/C
ID AB119474 standard; DNA; 2970 BP.
XX
AC AB119474;
XX
XX
XX 26-MAR-2002 (first entry)
XX
DE Drosophila melanogaster genomic polynucleotide SEQ ID NO 9895.
XX
KW Drosophila; developmental biology; cell signalling; insecticide;
XX pharmaceutical; gene; ds.
XX
OS Drosophila melanogaster.
XX
XX
XX W0200171042-A2.
XX
XX
XX 27-SEP-2001.
XX
XX 23-MAR-2001; 2001WO-US09231.
XX
XX 23-MAR-2000; 2000US-191637P.
XX
XX 11-UTL-2000; 2000US-0614150.
XX
XX (PEKE ) PE CORP NY.
XX
XX Venter JC, Adams M, Li PWD, Myers EW;
XX
XX WPI; 2001-656860/75.
XX
XX
XX New isolated nucleic acid detection reagent for detecting 1000 or more
XX genes from Drosophila and for elucidating cell signalling and cell-cell
XX interactions -
XX
XX Claim 1; SEQ ID NO 9895; 21pp + Sequence Listing; English.
XX
XX
XX The invention relates to an isolated nucleic acid detection reagent
XX capable of detecting 1000 or more genes from Drosophila. The invention is
XX useful in developmental biology and in elucidating cell signalling and
XX cell-cell interactions in higher eukaryotes for the development of
XX insecticides, therapeutics and pharmaceutical drugs. The invention
XX discloses genomic DNA sequences (AB116176-AB130511), expressed DNA
XX sequences (AB101840-AB116175) and the encoded proteins
XX (AAB57737-AB572072).
XX
XX The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 2970 BP; 998 A; 540 C; 566 G; 866 T; 0 other;

Query Match
Best Local Similarity 100.0%; Score 21; DB 23; Length 2970;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 352 CTAAACCTGAATTTATTATTA 372
Db 2670 CTAAACCTGAATTTATTATTA 2650

RESULT 10
ABL30136/C
ID ABL30136 standard; DNA; 7862 BP.
XX

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XX PD 26-JUL-2001.  
 XX XX  
 XX PF 26-DEC-2000; 2000WO-US34263.  
 XX XX  
 PR 21-JAN-2000; 2000US-0488725.  
 PR 25-APR-2000; 2000US-0552317.  
 PR 09-JUL-2000; 2000US-0598042.  
 PR 19-JUL-2000; 2000US-0620312.  
 PR 03-AUG-2000; 2000US-0653450.  
 PR 14-SEP-2000; 2000US-0662191.  
 PR 19-OCT-2000; 2000US-0693036.  
 PR 29-NOV-2000; 2000US-0727344.  
 XX XX  
 PA (HYSE-) HYSEQ INC.  
 XX XX  
 PI Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;  
 PI Wang J, Wang Z, Wehman T, Xu C, Xue AJ, Yang Y, Zhang J;  
 PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;  
 XX XX  
 DR WPI, 2001-442253/47.  
 DR P-PSDB; AAM42203.  
 XX XX  
 PT Novel nucleic acids and polypeptides, useful for treating disorders  
 PT such as central nervous system injuries -  
 XX XX  
 PS Claim 1; SEQ ID NO 5348; 10078bp; English.  
 XX XX  
 CC The invention relates to human nucleic acids (AA157798-AA161369) and  
 CC the encoded polypeptides (AAM38642-AAM42213) with neurotropic,  
 CC immunosuppressant and cyostatic activity. The polynucleotides are useful  
 CC in gene therapy. A composition containing a polypeptide or polynucleotide  
 CC of the invention may be used to treat diseases of the peripheral nervous  
 CC system, such as peripheral nervous injuries, peripheral neuropathy and  
 CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic  
 CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the  
 CC utilisation of the activities such as: Immune system suppression,  
 CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic  
 CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,  
 CC C.N.S disorders.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification.  
 XX XX  
 SQ Sequence 2115 BP; 694 A; 415 C; 427 G; 579 T; 0 other;  
 XX XX  
 Query Match 3.3%; Score 20; DB 22; Length 2115;  
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 Db 686 TCTTCTCTTGTGTTGTTCTT 667  
 XX XX  
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 ID AAX77111 standard; DNA; 2178 BP.  
 XX XX  
 AC AAX77111;  
 XX XX  
 DT 03-AUG-1999 (first entry)  
 XX XX  
 DE Restriction fragment GC6 NcoI/XbaI.  
 XX XX  
 KW Cellular senescence; modulator; GC6 gene; senescent gene expression;  
 KW pGC6; human; ss.  
 XX XX  
 OS Homo sapiens.  
 XX XX  
 PN MO925878-A2.  
 XX XX

PD 27-MAY-1999.  
 XX XX  
 XX PF 19-NOV-1998; 98WO-US24996.  
 XX XX  
 PR 19-NOV-1997; 97US-0974180.  
 XX XX  
 PA (GERO-) GERON CORP.  
 XX XX  
 PI Funk W;  
 XX XX  
 DR WPI; 1999-347496/29.  
 XX XX  
 PT New human GC6 gene, useful for identifying agents for treating  
 PT diseases and/or conditions associated with cell senescence  
 XX XX  
 PS Disclosure; Page 14; 79pp; English.  
 XX XX  
 CC The invention relates to methods for modulating and identifying cellular  
 CC senescence. Recombinant expression vectors comprising a recombinant  
 CC polynucleotide corresponding to a polynucleotide in a human GC6 gene, are  
 CC useful for altering senescent gene expression. The vectors and host cells  
 CC comprising the vectors are useful for identifying agents that prevent or  
 CC modulate senescent gene expression. The polynucleotides are useful for  
 CC producing the protein, pGC6, and for detecting cells comprising pGC6 in  
 CC encoded are useful for raising antibodies specific for pGC6, which are  
 CC useful for isolating pGC6, and for detecting cells comprising pGC6 in  
 CC complex cell mixtures. The characterization of the polynucleotides enable  
 CC the identification of therapeutic agents that identify and distinguish  
 CC between young and senescent cells. This enables treatment of aging  
 CC diseases induced or exacerbated by cellular senescence.  
 XX XX  
 SQ Sequence 2178 BP; 596 A; 473 C; 436 G; 672 T; 1 other;  
 XX XX  
 Query Match 3.3%; Score 20; DB 20; Length 2178;  
 Best Local Similarity 100.0%; Pred. No. 11;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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 Db 1932 TCTTCTCTTGTGTTGTTCTT 1951  
 XX XX  
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 AAK94314  
 ID AAK94314 standard; CDNA; 2762 BP.  
 XX XX  
 AC AAK94314;  
 XX XX  
 DT 06-NOV-2001 (first entry)  
 XX XX  
 DE Human full-length cDNA, SEQ ID NO: 2985.  
 XX XX  
 KW Human; full length cDNA; cDNA synthesis; oligo-capping; ss.  
 XX XX  
 OS Homo sapiens.  
 XX XX  
 PN EP1130094-A2.  
 XX XX  
 PD 05-SEP-2001.  
 XX XX  
 PF 07-JUL-2000; 2000EP-0114089.  
 XX XX  
 PR 08-JUL-1999; 99JP-0194486.  
 PR 11-JAN-2000; 2000JP-0118774.  
 PR 02-MAY-2000; 2000JP-0183765.  
 XX XX  
 PA (HELT-) HELIX RES INST.  
 XX XX  
 PI Ota T, Nishikawa T, Isogai T, Hayashi K, Iehi S, Kawai Y;  
 PI Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;  
 XX XX  
 DR WPI; 2001-524255/58.  
 DR P-PSDB; AAM93393.  
 XX XX

XX 830 Primers useful for synthesizing full length cDNA clones and their  
 PT use in genetic manipulation -  
 XX  
 PS Claim 8; SEQ ID NO 2985; 1380bp + sequence listing; English.  
 XX  
 CC The invention relates to primers for synthesizing full length cDNA  
 CC clones. 830 cDNA molecules encoding a human protein have been  
 CC isolated and nucleotide sequences of 5' - and 3' - ends of the cDNA  
 CC molecules have been determined. Primers for synthesizing the full length  
 CC cDNA are useful for clarifying the function of the protein encoded by  
 CC the cDNA. The full length clones were obtained by construction of full  
 CC length enriched cDNA libraries that were synthesised by the oligo-capping  
 CC method. The primers enable the production of the full length cDNA easily  
 CC without any special methods. The present sequence is a full length  
 CC human cDNA of the invention.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in CD-ROM format directly from EPO.  
 XX  
 SQ Sequence 2762 BP; 760 A; 586 C; 569 G; 847 T; 0 other;  
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 Query Match 3.3%; Score 20; DB 22; Length 2762;  
 Best Local Similarity 100.0%; Pred. No. 11;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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 DB 2087 TCTTCTTCTTTGTTGTTCTT 2106  
 XX  
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 AAX77114  
 ID AAX77114 standard; DNA; 2970 BP.  
 XX  
 AC AAX77114;  
 XX  
 DT 03-AUG-1999 (first entry)  
 XX  
 DE DNA sequence of GC6 gene.  
 XX  
 KM Cellular senescence; modulator; GC6 gene; senescent gene expression;  
 KM pGC6; human; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO925878-A2.  
 XX  
 PD 27-MAY-1999.  
 XX  
 PF 19-NOV-1998; 98WO-US24996.  
 XX  
 PR 19-NOV-1997; 97US-0974180.  
 XX  
 PA (GERO-) GERON CORP.  
 XX  
 PI Funk W;  
 XX  
 DR WPI: 1999-347496/29.  
 DR P-PSDB; AAY21556.  
 XX  
 PT New human GC6 gene, useful for identifying agents for treating  
 PT diseases and/or conditions associated with cell senescence  
 XX  
 PS Claim 1; Page 15-17; 79pp; English.  
 XX  
 CC The invention relates to methods for modulating and identifying cellular  
 CC senescence. Recombinant expression vectors comprising a recombinant  
 CC polynucleotide corresponding to a polynucleotide in a human GC6 gene, are  
 CC useful for altering senescent gene expression. The vectors and host cells  
 CC comprising the vectors are useful for identifying agents that prevent or  
 CC modulate senescent gene expression. The polynucleotides are useful for  
 CC producing the protein, pGC6 and nucleic acid derivatives. The proteins  
 CC encoded are useful for raising antibodies specific for pGC6, which are

CC useful for isolating pGC6, and for detecting cells comprising pGC6 in  
 CC complex cell mixtures. The characterization of the polynucleotides enable  
 CC the identification of therapeutic agents that identify and distinguish  
 CC between young and senescent cells. This enables treatment of aging  
 CC diseases induced or exacerbated by cellular senescence.  
 XX

SQ Sequence 2970 BP; 829 A; 623 C; 586 G; 931 T; 1 other;

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 Best Local Similarity 100.0%; Pred. No. 11;  
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OM nucleic - nucleic search, using sw model

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Title: US-09-856-725-2

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Searched: 441362 seqs, 153338381 residues

Word size : 0

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a  
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and is derived by analysis of the total score distribution.

#### SUMMARIES

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5	39	6.4	3040	2	US-08-945-024-1	Sequence 1, Appl1
6	23	3.7	2804	1	US-08-446-794A-3	Sequence 3, Appl1
7	20	3.3	2178	3	US-08-974-180-11	Sequence 11, Appl1
8	20	3.3	2970	3	US-08-974-180-14	Sequence 14, Appl1
9	18	2.9	139	3	US-08-952-973-17	Sequence 17, Appl1
10	18	2.9	1001	4	US-09-641-638-458	Sequence 458, App
11	18	2.9	6152	4	US-08-973-462-1	Sequence 1, Appl1
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13	18	2.9	80595	4	US-09-078-294-3	Sequence 3, Appl1
14	17	2.8	251	2	US-08-623-906A-16	Sequence 16, Appl1
15	17	2.8	467	4	US-09-328-111-329	Sequence 329, App
16	17	2.8	3061	2	US-08-692-787-47	Sequence 47, Appl1
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C 35	16	2.6	69	5	PCT-US92-01015-12	Sequence 12, Appl1
C 36	16	2.6	72	5	PCT-US92-01015-3	Sequence 3, Appl1
C 37	16	2.6	146	2	US-08-454-557C-116	Sequence 116, App
C 38	16	2.6	146	2	US-08-340-426D-116	Sequence 116, App
C 39	16	2.6	146	2	US-08-450-673C-116	Sequence 116, App
C 40	16	2.6	146	5	PCT-US95-17111A-116	Sequence 116, App
C 41	16	2.6	173	4	US-08-481-190-18	Sequence 18, Appl1
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C 46	16	2.6	232	2	US-08-450-673C-85	Sequence 85, Appl1
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C 65	16	2.6	1001	4	US-09-641-638-614	Sequence 614, App
C 66	16	2.6	1001	4	US-09-641-638-615	Sequence 615, App
C 67	16	2.6	1001	4	US-09-641-638-638	Sequence 638, App
C 68	16	2.6	1001	4	US-09-641-638-641	Sequence 641, App
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C 98	16	2.6	2529	3	US-08-749-522-3	Sequence 3, Appl1
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C 104	16	2.6	2808	4	US-07-445-247-7	Sequence 7, Appli
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C 112	16	2.6	3736	3	US-08-480-473B-1	Sequence 1, Appli
C 113	16	2.6	3736	3	US-08-915-213-1	Sequence 1, Appli
C 114	16	2.6	3736	3	US-09-148-547-1	Sequence 1, Appli
C 115	16	2.6	3736	5	PCT-US96-527-1	Sequence 1, Appli
C 116	16	2.6	3766	5	US-08-961-527-225	Sequence 225, Appl
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C 121	16	2.6	3923	2	US-09-176-320-7	Sequence 7, Appli
C 122	16	2.6	4233	4	US-09-056-105-27	Sequence 27, Appli
C 123	16	2.6	4281	4	US-09-357-206A-8	Sequence 8, Appli
C 124	16	2.6	4673	4	US-08-482-918-39	Sequence 39, Appli
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C 126	16	2.6	5194	4	US-08-844-274-16	Sequence 16, Appli
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C 131	16	2.6	5981	1	US-08-290-301-83	Sequence 83, Appli
C 132	16	2.6	5981	1	US-09-013-598-83	Sequence 83, Appli
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C 135	16	2.6	6448	2	US-08-649-046-3	Sequence 3, Appli
C 136	16	2.6	6723	4	US-08-844-274-13	Sequence 13, Appli
C 137	16	2.6	7560	4	US-08-844-274-14	Sequence 14, Appli
C 138	16	2.6	8342	5	PCT-US94-04496-63	Sequence 63, Appli
C 139	16	2.6	8392	1	US-08-080-255-6	Sequence 6, Appli
C 140	16	2.6	8392	5	PCT-US93-05857-6	Sequence 6, Appli
C 141	16	2.6	8392	5	US-08-961-527-29	Sequence 29, Appli
C 142	16	2.6	8392	3	US-09-357-206A-1	Sequence 21, Appli
C 143	16	2.6	8392	3	US-09-357-206A-9	Sequence 29, Appli
C 144	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 145	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 146	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 147	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 148	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 149	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 150	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 151	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 152	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 153	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 154	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 155	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 156	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 157	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 158	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 159	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 160	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 161	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 162	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 163	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 164	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 165	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 166	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 167	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 168	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 169	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 170	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 171	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 172	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli
C 173	16	2.6	8392	3	US-08-669-161A-29	Sequence 29, Appli

247	15	2.4	1147	3	US-08-755-587-42	Sequence 42, Appl	320	15	2.4	2093	5	PCT-US95-09941-1	Sequence 1, Appl
C 248	15	2.4	1236	2	US-08-579-556A-7	Sequence 7, Appl	321	15	2.4	2144	3	US-08-747-221B-57	Sequence 57, Appl
C 249	15	2.4	1361	4	US-09-578-303-1	Sequence 1, Appl	C 322	15	2.4	2144	3	US-08-747-221B-59	Sequence 59, Appl
250	15	2.4	1400	2	US-08-481-658B-43	Sequence 43, Appl	C 323	15	2.4	2144	4	US-09-005-051-57	Sequence 57, Appl
251	15	2.4	1400	2	US-08-477-504A-43	Sequence 43, Appl	C 324	15	2.4	2144	4	US-09-005-051-59	Sequence 59, Appl
252	15	2.4	1400	2	US-08-486-756A-43	Sequence 43, Appl	C 325	15	2.4	2145	3	US-09-078-86C-1	Sequence 1, Appl
253	15	2.4	1400	2	US-08-485-862B-43	Sequence 43, Appl	C 326	15	2.4	2148	3	US-08-809-999D-2	Sequence 2, Appl
254	15	2.4	1400	3	US-08-787-739-43	Sequence 43, Appl	C 327	15	2.4	2148	3	US-09-069-637-2	Sequence 2, Appl
255	15	2.4	1400	3	US-08-487-077A-43	Sequence 43, Appl	C 328	15	2.4	2102	4	US-09-322-33B-2	Sequence 2, Appl
256	15	2.4	1400	3	US-08-485-863A-43	Sequence 43, Appl	C 329	15	2.4	2204	4	US-09-154-750A-77	Sequence 77, Appl
257	15	2.4	1400	4	US-08-485-049D-43	Sequence 43, Appl	C 330	15	2.4	2254	1	US-08-655-878-1	Sequence 1, Appl
258	15	2.4	1400	4	US-09-178-115-43	Sequence 43, Appl	C 331	15	2.4	2273	4	US-08-975-76C-45	Sequence 45, Appl
259	15	2.4	1400	4	US-09-177-776-43	Sequence 43, Appl	C 332	15	2.4	2273	4	US-09-295-02E-45	Sequence 45, Appl
C 260	15	2.4	1461	4	US-08-858-207A-44	Sequence 43, Appl	C 333	15	2.4	2273	4	US-09-106-58E-45	Sequence 45, Appl
C 261	15	2.4	1512	4	US-09-134-001C-620	Sequence 620, App	C 334	15	2.4	2307	4	US-08-936-165A-191	Sequence 191, App
C 262	15	2.4	1515	4	US-09-134-001C-143	Sequence 143, App	C 335	15	2.4	2230	4	US-08-792-83A-1	Sequence 1, Appl
C 263	15	2.4	1530	4	US-09-131-831B-2	Sequence 2, Appl	C 336	15	2.4	2262	2	US-08-841-483-1	Sequence 1, Appl
C 264	15	2.4	1545	1	US-07-872-673B-2	Sequence 2, Appl	C 337	15	2.4	2601	4	US-09-382-911-1	Sequence 1, Appl
C 265	15	2.4	1545	1	US-08-809-999D-1	Sequence 1, Appl	C 338	15	2.4	2601	4	US-08-569-74D-3	Sequence 3, Appl
C 266	15	2.4	1554	3	US-09-069-637-1	Sequence 1, Appl	C 339	15	2.4	2601	5	PCT-US96-12860-3	Sequence 3, Appl
C 267	15	2.4	1554	4	US-09-322-360-1	Sequence 1, Appl	C 340	15	2.4	2683	4	US-09-149-476-301	Sequence 301, App
C 268	15	2.4	1554	4	US-09-131-831B-1	Sequence 1, Appl	C 341	15	2.4	2694	4	US-09-134-001C-763	Sequence 763, App
C 269	15	2.4	1555	2	US-08-316-231B-1	Sequence 1, Appl	C 342	15	2.4	2908	3	US-08-799-79E-1	Sequence 1, Appl
C 270	15	2.4	1768	1	US-08-355-471-8	Sequence 8, Appl	C 343	15	2.4	2938	4	US-08-969-81E-3	Sequence 3, Appl
C 271	15	2.4	1767	4	US-09-068-140A-11	Sequence 11, Appl	C 344	15	2.4	2938	4	US-09-120-02E-3	Sequence 3, Appl
C 272	15	2.4	1812	4	US-09-268-347-37	Sequence 37, Appl	C 345	15	2.4	2938	4	US-09-710-481-3	Sequence 3, Appl
C 273	15	2.4	1825	4	US-09-461-697-75	Sequence 75, Appl	C 346	15	2.4	2944	2	US-08-696-94A-18	Sequence 18, Appl
C 274	15	2.4	1839	1	US-08-075-193-1	Sequence 1, Appl	C 347	15	2.4	2965	3	US-08-906-360-3	Sequence 3, Appl
C 275	15	2.4	1839	2	US-08-564-090A-1	Sequence 1, Appl	C 348	15	2.4	3025	1	US-08-444-734A-1	Sequence 1, Appl
C 276	15	2.4	1839	4	US-09-203-895-2	Sequence 2, Appl	C 349	15	2.4	3043	1	US-09-049-699-16	Sequence 16, Appl
C 277	15	2.4	1839	5	PCT-US94-06698-1	Sequence 1, Appl	C 350	15	2.4	3076	2	US-09-205-14A-1	Sequence 1, Appl
C 278	15	2.4	1866	6	PCT-US94-06698-1	Patent No. 5210183-1	C 351	15	2.4	3142	2	US-08-110-15E-3	Sequence 3, Appl
C 279	15	2.4	1897	2	US-08-809-494A-1	Sequence 1, Appl	C 352	15	2.4	3144	5	PCT-US91-05059-1	Sequence 1, Appl
C 280	15	2.4	1897	4	US-09-352-302-1	Sequence 1, Appl	C 353	15	2.4	3181	4	US-09-049-699-18	Sequence 18, Appl
C 281	15	2.4	1900	4	US-08-965-762-24	Sequence 24, Appl	C 354	15	2.4	3217	4	US-09-232-200-64	Sequence 64, Appl
C 282	15	2.4	1906	2	US-08-809-494A-3	Sequence 3, Appl	C 355	15	2.4	3217	4	US-09-232-197-64	Sequence 64, Appl
C 283	15	2.4	1906	4	US-09-352-302-3	Sequence 3, Appl	C 356	15	2.4	3217	4	US-09-232-201-64	Sequence 64, Appl
C 284	15	2.4	1933	4	US-09-509-814A-5	Sequence 5, Appl	C 357	15	2.4	3292	4	US-09-068-1140A-12	Sequence 12, Appl
C 285	15	2.4	1933	4	US-09-509-814A-7	Sequence 7, Appl	C 358	15	2.4	3293	1	US-08-030-096-1	Sequence 1, Appl
C 286	15	2.4	1934	3	US-08-961-083-159	Sequence 159, App	C 359	15	2.4	3350	1	US-08-247-946A-2	Sequence 2, Appl
C 287	15	2.4	1938	4	US-09-232-200-29	Sequence 29, Appl	C 360	15	2.4	3350	5	PCT-US95-06420-2	Sequence 2, Appl
C 288	15	2.4	1938	4	US-09-232-197-29	Sequence 29, Appl	C 361	15	2.4	3447	1	US-08-252-995D-3	Sequence 3, Appl
C 289	15	2.4	1938	4	US-09-232-201-29	Sequence 29, Appl	C 362	15	2.4	3447	2	US-08-834-10B-3	Sequence 3, Appl
C 290	15	2.4	1982	3	US-08-747-221B-13	Sequence 13, Appl	C 363	15	2.4	3461	2	US-08-389-564B-1	Sequence 1, Appl
C 291	15	2.4	1982	3	US-08-747-221B-15	Sequence 15, Appl	C 364	15	2.4	3461	4	US-08-466-047B-1	Sequence 1, Appl
C 292	15	2.4	1982	4	US-09-005-051-13	Sequence 13, Appl	C 365	15	2.4	3537	4	US-08-245-248B-58	Sequence 58, Appl
C 293	15	2.4	1982	4	US-09-005-051-15	Sequence 15, Appl	C 366	15	2.4	3539	4	US-09-245-248B-59	Sequence 59, Appl
C 294	15	2.4	2003	1	US-08-036-556B-21	Sequence 21, Appl	C 367	15	2.4	3536	4	US-08-961-527-78	Sequence 78, Appl
C 295	15	2.4	2003	1	US-08-469-569-21	Sequence 21, Appl	C 368	15	2.4	3640	2	US-08-627-87E-6	Sequence 6, Appl
C 296	15	2.4	2003	1	US-08-249-522A-21	Sequence 21, Appl	C 369	15	2.4	3707	1	US-08-118-101A-1	Sequence 1, Appl
C 297	15	2.4	2003	1	US-08-469-526A-21	Sequence 21, Appl	C 370	15	2.4	3728	1	US-08-111-93E-1	Sequence 1, Appl
C 298	15	2.4	2003	2	US-08-734-591A-21	Sequence 21, Appl	C 371	15	2.4	3752	4	US-08-961-527-208	Sequence 208, App
C 299	15	2.4	2003	2	US-08-469-660-21	Sequence 21, Appl	C 372	15	2.4	3804	4	US-08-842-38E-1	Sequence 1, Appl
C 300	15	2.4	2003	3	US-08-341-018-71	Sequence 71, Appl	C 373	15	2.4	3850	4	US-09-398-395A-33	Sequence 33, Appl
C 301	15	2.4	2003	3	US-08-470-335-21	Sequence 21, Appl	C 374	15	2.4	3863	1	US-08-464-961-1	Sequence 1, Appl
C 302	15	2.4	2003	4	US-08-735-021-21	Sequence 21, Appl	C 375	15	2.4	3863	3	US-08-907-800A-1	Sequence 1, Appl
C 303	15	2.4	2003	4	US-08-734-664A-21	Sequence 21, Appl	C 376	15	2.4	3863	4	US-08-907-800A-1	Sequence 1, Appl
C 304	15	2.4	2003	4	US-08-470-339-21	Sequence 21, Appl	C 377	15	2.4	3863	4	US-08-969-31E-1	Sequence 1, Appl
C 305	15	2.4	2003	4	US-08-467-602-21	Sequence 21, Appl	C 378	15	2.4	3863	5	PCT-US96-08223-1	Sequence 1, Appl
C 306	15	2.4	2003	5	PCT-US94-05083C-21	Sequence 21, Appl	C 379	15	2.4	3991	4	US-08-506-296B-3	Sequence 3, Appl
C 307	15	2.4	2003	5	PCT-US95-06846A-21	Sequence 21, Appl	C 380	15	2.4	4032	1	US-08-107-74E-3	Sequence 3, Appl
C 308	15	2.4	2024	2	US-08-458-970A-1	Sequence 1, Appl	C 381	15	2.4	4032	5	US-08-245-809-4	Sequence 4, Appl
C 309	15	2.4	2024	2	US-08-439-145-1	Sequence 1, Appl	C 382	15	2.4	4032	5	PCT-US92-01385-3	Sequence 3, Appl
C 310	15	2.4	2022	4	US-09-446-047A-19	Sequence 19, Appl	C 383	15	2.4	4078	2	US-08-960-02E-3	Sequence 3, Appl
C 311	15	2.4	2077	1	US-07-872-644-52	Sequence 52, Appl	C 384	15	2.4	4129	2	US-08-370-31EC-12	Sequence 12, Appl
C 312	15	2.4	2077	1	US-08-297-494-52	Sequence 52, Appl	C 385	15	2.4	4129	4	US-09-224-83A-12	Sequence 12, Appl
C 313	15	2.4	2077	1	US-08-297-510-52	Sequence 52, Appl	C 386	15	2.4	4455	4	US-08-643-597-151	Sequence 151, App
C 314	15	2.4	2077	1	US-08-479-532-52	Sequence 52, Appl	C 387	15	2.4	4455	4	US-08-961-527-185	Sequence 185, App
C 315	15	2.4	2077	1	US-08-455-526-52	Sequence 52, Appl	C 388	15	2.4	4437	4	US-09-643-597-335	Sequence 335, App
C 316	15	2.4	2077	1	US-08-455-525-52	Sequence 52, Appl	C 389	15	2.4	4437	4	US-08-038-68E-3	Sequence 3, Appl
C 317	15	2.4	2077	3	US-09-139-491-52	Sequence 52, Appl	C 390	15	2.4	4437	1	US-08-302-83E-3	Sequence 3, Appl
C 318	15	2.4	2077	5	PCT-US92-03222-52	Sequence 52, Appl	C 391	15	2.4	4537	2	US-08-530-19E-3	Sequence 3, Appl
C 319	15	2.4	2093	1	US-08-287-001A-1	Sequence 1, Appl	C 392	15	2.4	4837	2	US-08-469-880-3	Sequence 3, Appl

C 393	15	2.4	4937	2	US-08-728-470-3	Sequence 3, Appl	466	15	2.4	22481	4	US-08-367-841A-43	Sequence 43, Appl
C 394	15	2.4	4937	2	US-08-617-697-3	Sequence 3, Appl	467	15	2.4	22481	4	US-08-367-841A-43	Sequence 43, Appl
C 395	15	2.4	4937	4	US-08-719-641-3	Sequence 3, Appl	468	15	2.4	22481	5	PCT-US95-07201-43	Sequence 43, Appl
C 396	15	2.4	4937	4	US-09-206-942-70	Sequence 70, Appl	469	15	2.4	22481	5	PCT-US95-07201-43	Sequence 43, Appl
398	15	2.4	5238	2	US-08-521-053-11	Sequence 11, Appl	470	15	2.4	22484	4	US-09-875-923-2	Sequence 2, Appl
399	15	2.4	5474	4	US-09-040-738-1	Sequence 1, Appl	471	15	2.4	22484	4	US-09-875-923-2	Sequence 2, Appl
C 400	15	2.4	5474	4	US-08-653-426A-1	Sequence 1, Appl	472	15	2.4	22484	4	US-09-875-923-2	Sequence 2, Appl
C 401	15	2.4	5630	2	US-08-937-931-1	Sequence 1, Appl	473	15	2.4	29604	3	US-08-564-805-28	Sequence 28, Appl
C 402	15	2.4	5630	4	US-09-285-502-1	Sequence 1, Appl	474	15	2.4	31571	1	US-08-781-891-207	Sequence 207, Appl
C 403	15	2.4	5630	4	US-09-709-126-1	Sequence 1, Appl	475	15	2.4	35060	3	US-08-123-443B-1	Sequence 7, Appl
C 404	15	2.4	5757	4	US-09-871-385A-1	Sequence 1, Appl	476	15	2.4	36159	4	US-08-814-095-7	Sequence 7, Appl
C 405	15	2.4	5855	1	US-08-984-618-1	Sequence 1, Appl	477	15	2.4	40000	4	US-09-749-588-3	Sequence 3, Appl
C 406	15	2.4	5855	3	US-08-592-214A-20	Sequence 20, Appl	478	15	2.4	41708	4	US-09-470-512A-3	Sequence 3, Appl
C 407	15	2.4	5889	4	US-09-149-976-20	Sequence 20, Appl	479	15	2.4	42571	4	US-09-810-347-3	Sequence 3, Appl
C 408	15	2.4	6265	4	US-09-402-929-3	Sequence 3, Appl	480	15	2.4	48000	4	US-09-453-702B-137	Sequence 137, App
C 409	15	2.4	6678	4	US-09-129-112-3	Sequence 3, Appl	481	15	2.4	48908	4	US-09-146-053-3	Sequence 3, Appl
C 410	15	2.4	6706	4	US-09-268-347-33	Sequence 33, Appl	482	15	2.4	51299	3	US-08-781-891-209	Sequence 209, App
C 411	15	2.4	7244	4	US-08-368-347-27	Sequence 27, Appl	483	15	2.4	53526	3	US-08-658-136-2	Sequence 2, Appl
C 412	15	2.4	7521	4	US-08-378-313-26	Sequence 26, Appl	484	15	2.4	53527	3	US-08-658-136-1	Sequence 2, Appl
C 413	15	2.4	7521	4	US-09-004-838-116	Sequence 116, App	485	15	2.4	53577	3	US-08-658-136-1	Sequence 2, Appl
C 414	15	2.4	7720	4	US-09-318-448-5	Sequence 116, App	486	15	2.4	59065	4	US-09-813-817-3	Sequence 1, Appl
C 415	15	2.4	7874	4	US-09-780-175-96	Sequence 5, Appl	487	15	2.4	59065	4	US-09-978-197-3	Sequence 1, Appl
C 416	15	2.4	8065	4	US-09-091-952A-6	Sequence 96, Appl	488	15	2.4	62804	4	US-09-800-960-3	Sequence 3, Appl
C 417	15	2.4	8065	4	US-08-913-014A-9	Sequence 6, Appl	489	15	2.4	70000	4	US-09-851-896-3	Sequence 3, Appl
C 418	15	2.4	9058	4	US-08-913-014A-9	Sequence 9, Appl	490	15	2.4	72928	4	US-09-009-913-1	Sequence 1, Appl
C 419	15	2.4	9058	1	US-08-038-682-6	Sequence 6, Appl	491	15	2.4	80246	4	US-09-078-294-4	Sequence 4, Appl
C 420	15	2.4	9233	1	US-08-038-682-6	Sequence 6, Appl	492	15	2.4	80246	4	US-09-078-294-4	Sequence 4, Appl
C 421	15	2.4	9233	1	US-08-530-832-6	Sequence 6, Appl	493	15	2.4	80246	4	US-09-078-294-4	Sequence 4, Appl
C 422	15	2.4	9233	2	US-08-469-880-6	Sequence 6, Appl	494	15	2.4	84950	4	US-09-797-906-3	Sequence 3, Appl
C 423	15	2.4	9233	2	US-08-469-880-6	Sequence 6, Appl	495	15	2.4	84950	4	US-09-797-906-3	Sequence 3, Appl
C 424	15	2.4	9233	2	US-08-728-470-6	Sequence 6, Appl	496	15	2.4	88444	4	US-09-791-211-3	Sequence 3, Appl
C 425	15	2.4	9233	2	US-08-617-697-6	Sequence 6, Appl	497	15	2.4	98844	4	US-09-791-211-3	Sequence 3, Appl
C 426	15	2.4	9365	4	US-09-608-285A-8	Sequence 8, Appl	498	15	2.4	98844	4	US-09-791-211-3	Sequence 3, Appl
C 427	15	2.4	9365	4	US-09-350-836B-8	Sequence 8, Appl	499	15	2.4	99500	4	US-09-798-096-10	Sequence 10, Appl
C 428	15	2.4	9365	4	US-09-370-265-8	Sequence 8, Appl	500	15	2.4	162454	4	US-09-345-882-1	Sequence 1, Appl
C 429	15	2.4	9603	4	US-09-203-895-1	Sequence 8, Appl	501	15	2.4	165998	4	US-09-676-610B-24	Sequence 24, Appl
C 430	15	2.4	9686	4	US-09-221-017B-1003	Sequence 1, Appl	502	15	2.4	176373	3	US-08-128-155-17	Sequence 1, Appl
C 431	15	2.4	9721	4	US-09-345-217-2	Sequence 1003, Ap	503	14	2.3	15	1	US-08-242-402-5	Sequence 2, Appl
C 432	15	2.4	9734	4	US-09-423-744A-19	Sequence 2, Appl	504	14	2.3	15	1	US-08-242-402-5	Sequence 2, Appl
C 433	15	2.4	10504	4	US-09-423-744A-19	Sequence 19, Appl	505	14	2.3	15	1	US-08-270-180-6	Sequence 6, Appl
C 434	15	2.4	10726	4	US-09-961-527-66	Sequence 66, Appl	506	14	2.3	15	1	US-08-311-486C-193	Sequence 21, Appl
C 435	15	2.4	10815	4	US-09-004-838-21	Sequence 21, Appl	507	14	2.3	15	3	US-08-682-423-6	Sequence 6, Appl
C 436	15	2.4	10815	4	US-08-481-658B-5	Sequence 5, Appl	508	14	2.3	15	3	US-08-682-423-6	Sequence 6, Appl
C 437	15	2.4	10898	2	US-08-477-504A-5	Sequence 5, Appl	509	14	2.3	15	5	PCT-US95-05141-6	Sequence 21, Appl
C 438	15	2.4	10898	2	US-08-485-863A-5	Sequence 5, Appl	510	14	2.3	15	5	PCT-US95-05141-6	Sequence 21, Appl
C 439	15	2.4	10898	2	US-08-485-862B-5	Sequence 5, Appl	511	14	2.3	15	5	PCT-US95-05141-6	Sequence 21, Appl
C 440	15	2.4	10898	2	US-08-485-862B-5	Sequence 5, Appl	512	14	2.3	15	5	PCT-US95-05141-6	Sequence 21, Appl
C 441	15	2.4	10898	3	US-08-787-739-5	Sequence 5, Appl	513	14	2.3	16	1	US-08-242-402-7	Sequence 22, Appl
C 442	15	2.4	10898	3	US-08-487-077A-5	Sequence 5, Appl	514	14	2.3	16	1	US-08-242-402-7	Sequence 22, Appl
C 443	15	2.4	10898	3	US-08-485-863A-5	Sequence 5, Appl	515	14	2.3	16	1	US-08-242-402-7	Sequence 22, Appl
C 444	15	2.4	10898	4	US-08-485-863A-5	Sequence 5, Appl	516	14	2.3	18	1	US-08-152-313-80	Sequence 80, Appl
C 445	15	2.4	10898	4	US-09-177-776-5	Sequence 5, Appl	517	14	2.3	18	1	US-08-579-223-80	Sequence 80, Appl
C 446	15	2.4	11461	3	US-09-177-776-5	Sequence 29, Appl	518	14	2.3	18	4	PCT-US94-12947A-80	Sequence 17, Appl
C 447	15	2.4	11811	4	US-08-669-61A-29	Sequence 29, Appl	519	14	2.3	18	5	PCT-US94-12947A-80	Sequence 17, Appl
C 448	15	2.4	12141	4	US-09-078-294-7	Sequence 7, Appl	520	14	2.3	21	1	US-08-242-402-19	Sequence 19, Appl
C 449	15	2.4	12394	4	US-09-423-744A-1	Sequence 1, Appl	521	14	2.3	21	3	US-08-682-423-18	Sequence 18, Appl
C 450	15	2.4	13146	2	US-08-724-354D-3	Sequence 3, Appl	522	14	2.3	21	5	US-09-165-868-8	Sequence 8, Appl
C 451	15	2.4	13146	2	US-09-270-984A-3	Sequence 87, Appl	523	14	2.3	21	5	PCT-US95-05141-18	Sequence 18, Appl
C 452	15	2.4	13146	2	US-09-004-838A-3	Sequence 3, Appl	524	14	2.3	23	1	US-08-242-402-6	Sequence 6, Appl
C 453	15	2.4	13953	4	US-09-738-884-3	Sequence 1, Appl	525	14	2.3	23	3	US-08-270-180-17	Sequence 17, Appl
C 454	15	2.4	14507	3	US-08-785-150-1	Sequence 1, Appl	526	14	2.3	23	3	US-08-682-423-17	Sequence 17, Appl
C 455	15	2.4	14507	3	US-08-785-150-1	Sequence 1, Appl	527	14	2.3	23	3	US-08-682-423-17	Sequence 17, Appl
C 456	15	2.4	14507	4	US-09-60-299-1	Sequence 1, Appl	528	14	2.3	23	3	PCT-US95-05141-17	Sequence 29, Appl
C 457	15	2.4	14507	4	US-09-60-299-1	Sequence 1, Appl	529	14	2.3	23	5	PCT-US95-05141-17	Sequence 29, Appl
C 458	15	2.4	14581	4	US-08-520-373D-4	Sequence 4, Appl	530	14	2.3	24	1	US-08-242-402-18	Sequence 25, Appl
C 459	15	2.4	14581	4	US-08-520-373D-4	Sequence 4, Appl	531	14	2.3	24	1	US-08-242-402-18	Sequence 25, Appl
C 460	15	2.4	14747	4	US-09-608-285A-42	Sequence 42, Appl	532	14	2.3	24	1	US-08-682-423-28	Sequence 28, Appl
C 461	15	2.4	15602	4	US-09-844-634-17	Sequence 17, Appl	533	14	2.3	24	5	PCT-US95-05141-28	Sequence 28, Appl
C 462	15	2.4	15977	4	US-09-608-285A-59	Sequence 59, Appl	534	14	2.3	30	3	US-08-913-842-82	Sequence 22, Appl
C 463	15	2.4	18073	4	US-09-433-579-3	Sequence 3, Appl	535	14	2.3	30	3	US-09-176-862-18	Sequence 18, Appl
C 464	15	2.4	18609	4	US-09-078-294-12	Sequence 12, Appl	536	14	2.3	34	1	US-08-434-503-29	Sequence 29, Appl
C 465	15	2.4	18609	4	US-08-943-731-1	Sequence 1, Appl	537	14	2.3	38	1	US-08-223-177A-68	Sequence 68, Appl
			19124	2	US-08-487-826B-13	Sequence 13, Appl	538	14	2.3	40	2	US-08-343-443B-23	Sequence 23, Appl



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540	14	2.3	42	2	US-08-330-394A-26	Sequence 26, App1	613	14	2.3	429	4	US-09-397-787-211	Sequence 211, App
541	14	2.3	42	2	US-09-198-119C-32	Sequence 32, App1	C 614	14	2.3	460	3	US-08-961-083-223	Sequence 223, App
C 542	14	2.3	43	2	US-08-330-394A-25	Sequence 25, App1	615	14	2.3	465	6	5496550-9	Patent No. 5496550
C 543	14	2.3	46	1	US-08-222-177A-349	Sequence 349, App	616	14	2.3	466	6	5496550-7	Patent No. 5496550
C 544	14	2.3	51	1	US-08-222-177A-325	Sequence 325, App	C 617	14	2.3	468	4	US-08-943-731-121	Sequence 121, App
C 545	14	2.3	54	2	US-08-649-591-3	Sequence 3, App11	C 618	14	2.3	471	3	US-09-181-183-5	Sequence 5, App11
C 546	14	2.3	58	4	US-09-502-558-14	Sequence 14, App1	C 619	14	2.3	471	4	US-09-280-040-5	Sequence 5, App11
C 547	14	2.3	63	2	US-08-980-071-22	Sequence 22, App1	C 620	14	2.3	471	4	US-09-277-700-5	Sequence 5, App11
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C 550	14	2.3	63	3	US-09-250-848-22	Sequence 22, App1	C 623	14	2.3	482	2	US-09-324-231-1	Sequence 1, App11
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C 552	14	2.3	63	4	US-09-337-635-22	Sequence 22, App1	C 625	14	2.3	491	1	US-07-945-288-7	Sequence 7, App11
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C 558	14	2.3	86	1	US-08-442-062-80	Sequence 80, App1	C 631	14	2.3	491	2	US-08-484-296-7	Sequence 7, App11
C 559	14	2.3	86	1	US-08-748-697A-80	Sequence 80, App1	C 632	14	2.3	491	5	PCT-US93-08518-7	Sequence 7, App11
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C 564	14	2.3	97	1	US-08-479-724A-10	Sequence 10, App1	C 637	14	2.3	514	3	US-08-875-573-5	Sequence 5, App11
C 565	14	2.3	97	1	US-08-479-724A-35	Sequence 35, App1	C 638	14	2.3	537	4	US-09-280-116-96	Sequence 96, App1
C 566	14	2.3	97	3	US-08-472-256B-10	Sequence 10, App1	C 639	14	2.3	543	4	US-09-594-193-5	Sequence 5, App11
C 567	14	2.3	97	3	US-08-472-256B-35	Sequence 35, App1	C 640	14	2.3	554	4	US-08-961-527-279	Sequence 279, App
C 568	14	2.3	97	4	US-08-952-793-10	Sequence 10, App1	C 641	14	2.3	568	3	US-09-188-930-253	Sequence 253, App
C 569	14	2.3	97	4	US-08-952-793-35	Sequence 35, App1	C 642	14	2.3	588	1	US-07-945-288-3	Sequence 3, App11
C 570	14	2.3	97	5	PCT-US96-09455A-10	Sequence 10, App1	C 643	14	2.3	588	1	US-08-462-831-3	Sequence 3, App11
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C 573	14	2.3	99	1	US-08-472-256A-13	Sequence 13, App1	C 646	14	2.3	588	2	US-08-478-572-3	Sequence 3, App11
C 574	14	2.3	99	3	US-08-472-256B-13	Sequence 13, App1	C 647	14	2.3	588	4	US-08-484-296-3	Sequence 3, App11
C 575	14	2.3	99	4	US-08-952-793-13	Sequence 13, App1	C 648	14	2.3	588	5	PCT-US93-08518-3	Sequence 3, App11
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C 578	14	2.3	194	1	US-08-222-177A-15	Sequence 15, App1	C 651	14	2.3	594	4	US-09-280-116-240	Sequence 240, App
C 579	14	2.3	209	1	US-08-146-421-3	Sequence 3, App11	C 652	14	2.3	594	4	US-09-162-021B-5	Sequence 5, App11
C 580	14	2.3	222	4	US-08-461-190-15	Sequence 15, App1	C 653	14	2.3	598	4	US-09-276-531-50	Sequence 50, App1
C 581	14	2.3	222	5	PCT-US93-00869-15	Sequence 15, App1	C 654	14	2.3	601	4	US-08-764-100-8	Sequence 8, App11
C 582	14	2.3	227	3	US-08-913-842-18	Sequence 18, App1	C 655	14	2.3	602	1	US-08-764-100-7	Sequence 7, App11
C 583	14	2.3	227	4	US-08-750-717-7	Sequence 7, App11	C 656	14	2.3	602	1	US-08-690-364-19	Sequence 19, App1
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C 585	14	2.3	235	2	US-08-189-256A-21	Sequence 21, App1	C 658	14	2.3	619	4	US-08-961-527-324	Sequence 324, App
C 586	14	2.3	235	4	US-09-193-853-21	Sequence 4, App11	C 659	14	2.3	624	4	US-08-451-947-1	Sequence 1, App11
C 587	14	2.3	237	4	US-09-049-698-4	Sequence 4, App11	C 660	14	2.3	634	1	US-08-450-595-1	Sequence 1, App11
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C 590	14	2.3	272	2	US-08-805-118-5	Sequence 5, App11	C 663	14	2.3	634	3	US-08-928-694-1	Sequence 1, App11
C 591	14	2.3	272	4	US-09-381-958-5	Sequence 5, App11	C 664	14	2.3	634	5	PCT-US91-06950-1	Sequence 1, App11
C 592	14	2.3	288	4	US-08-651-155B-30	Sequence 30, App1	C 665	14	2.3	634	5	US-09-385-982-2	Sequence 2, App11
C 593	14	2.3	313	1	US-08-241-943-16	Sequence 16, App1	C 666	14	2.3	640	4	US-08-764-100-13	Sequence 13, App1
C 594	14	2.3	313	1	US-08-378-588-6	Sequence 6, App11	C 667	14	2.3	642	1	US-08-764-100-7	Sequence 7, App11
C 595	14	2.3	313	2	US-08-811-094-6	Sequence 6, App11	C 668	14	2.3	643	1	US-08-764-100-7	Sequence 7, App11
C 596	14	2.3	313	5	PCT-US94-11121-6	Sequence 114, App	C 669	14	2.3	643	1	US-08-764-100-7	Sequence 7, App11
C 597	14	2.3	330	3	US-09-157-177-114	Sequence 114, App	C 670	14	2.3	643	1	US-08-669-202-23	Sequence 23, App1
C 598	14	2.3	332	4	US-09-506-729-44	Sequence 27, App1	C 671	14	2.3	650	2	US-08-484-434C-30	Sequence 30, App1
C 599	14	2.3	333	4	US-09-018-584A-27	Sequence 27, App1	C 672	14	2.3	658	4	US-09-328-111-283	Sequence 283, App
C 600	14	2.3	334	2	US-08-623-906A-9	Sequence 9, App11	C 673	14	2.3	669	4	US-08-111-682-7	Sequence 7, App11
C 601	14	2.3	367	4	US-09-018-584A-7	Sequence 7, App11	C 674	14	2.3	675	4	US-09-134-001C-2605	Sequence 2605, App
C 602	14	2.3	369	4	US-08-991-789A-190	Sequence 190, App	C 675	14	2.3	684	3	US-09-181-183-31	Sequence 31, App1
C 603	14	2.3	369	4	US-09-062-451-190	Sequence 190, App	C 676	14	2.3	684	4	US-09-280-040-31	Sequence 31, App1
C 604	14	2.3	369	4	US-09-598-326-190	Sequence 133, App	C 677	14	2.3	689	4	US-09-277-700-31	Sequence 31, App1
C 605	14	2.3	387	4	US-09-222-575-133	Sequence 8, App11	C 678	14	2.3	700	4	US-09-152-060-26	Sequence 26, App1
C 606	14	2.3	397	5	US-08-330-108-8	Sequence 8, App11	C 679	14	2.3	703	1	US-08-469-202-22	Sequence 22, App1
C 607	14	2.3	397	5	PCT-US92-10087-8	Sequence 24, App1	C 680	14	2.3	703	1	US-08-469-202-22	Sequence 24, App1
C 608	14	2.3	417	2	US-09-657-452A-24	Sequence 20, App1	C 681	14	2.3	703	2	US-08-484-434C-29	Sequence 29, App1
C 609	14	2.3	420	2	US-08-189-256A-20	Sequence 20, App1	C 682	14	2.3	703	2	US-08-484-434C-29	Sequence 29, App1
C 610	14	2.3	420	4	US-09-193-853-20	Sequence 326, App	C 683	14	2.3	703	2	US-08-484-434C-31	Sequence 31, App1
C 611	14	2.3	425	4	US-09-641-638-326		C 684	14	2.3	703	2		

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686	14	2.3	718	1	US-08-466-202-21	Sequence 21, Appl	759	14	2.3	977	1	US-07-941-372-1	Sequence 1, Appl
687	14	2.3	718	2	US-08-484-434C-28	Sequence 28, Appl	760	14	2.3	977	5	PCT-US93-08247-1	Sequence 1, Appl
688	14	2.3	720	4	US-08-998-416-1086	Sequence 1086, Ap	761	14	2.3	977	6	5215895-2	Patent No. 5215895
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690	14	2.3	737	4	US-08-998-416-851	Sequence 851, App	763	14	2.3	983	2	US-08-787-335-1	Sequence 1, Appl
C 691	14	2.3	747	4	US-09-134-001C-2434	Sequence 2434, Ap	764	14	2.3	985	6	5215895-1	Sequence 34, Appl
C 692	14	2.3	751	4	US-09-280-116-86	Sequence 86, Appl	765	14	2.3	988	4	US-08-998-327E-34	Sequence 34, Appl
693	14	2.3	752	2	US-08-259-696B-7	Sequence 7, Appl	C 765	14	2.3	993	3	US-08-969-644-21	Sequence 21, Appl
694	14	2.3	752	2	US-08-902-513-7	Sequence 1, Appl	C 766	14	2.3	993	3	US-08-444-189-21	Sequence 21, Appl
C 695	14	2.3	756	4	US-08-244-557-1	Sequence 7, Appl	768	14	2.3	993	3	US-08-444-189-21	Sequence 21, Appl
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697	14	2.3	759	4	US-08-998-416-482	Sequence 482, App	770	14	2.3	1000	5	PCT-US96-06352-96	Sequence 96, Appl
698	14	2.3	772	6	5514567-2	Patent No. 5514567	771	14	2.3	1000	5	PCT-US96-06352-96	Sequence 96, Appl
699	14	2.3	777	6	5514567-2	Patent No. 5514567	772	14	2.3	1000	5	PCT-US96-06352-96	Sequence 96, Appl
700	14	2.3	798	1	US-08-133-979A-10	Sequence 10, Appl	773	14	2.3	1001	4	US-09-641-638-86	Sequence 86, Appl
701	14	2.3	798	2	US-08-436-890-10	Sequence 10, Appl	774	14	2.3	1001	4	US-09-641-638-86	Sequence 86, Appl
702	14	2.3	798	2	US-08-451-213-10	Sequence 10, Appl	C 775	14	2.3	1001	4	US-09-641-638-86	Sequence 121, App
C 703	14	2.3	799	4	US-09-166-350-11	Sequence 11, Appl	C 776	14	2.3	1001	4	US-09-641-638-168	Sequence 168, App
704	14	2.3	803	4	US-09-383-586-1	Sequence 5, Appl	C 777	14	2.3	1001	4	US-09-641-638-168	Sequence 168, App
C 705	14	2.3	808	4	US-08-936-165A-5	Sequence 1, Appl	C 778	14	2.3	1002	4	US-08-793-634B-4	Sequence 4, Appl
706	14	2.3	809	1	US-08-259-696B-6	Sequence 6, Appl	779	14	2.3	1002	4	US-08-641-638-578	Sequence 17, Appl
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708	14	2.3	809	2	US-08-902-513-8	Sequence 8, Appl	781	14	2.3	1016	1	US-08-109-391A-3	Sequence 3, Appl
709	14	2.3	809	2	US-08-902-513-8	Sequence 8, Appl	782	14	2.3	1016	1	US-08-459-019A-3	Sequence 3, Appl
C 710	14	2.3	813	4	US-09-134-001C-2179	Sequence 2179, Ap	783	14	2.3	1016	2	US-08-460-428A-3	Sequence 3, Appl
C 711	14	2.3	828	4	US-09-134-001C-895	Sequence 895, App	784	14	2.3	1016	2	US-08-458-860A-3	Sequence 3, Appl
C 712	14	2.3	830	4	US-09-144-776B-1	Sequence 1, Appl	785	14	2.3	1017	3	US-08-913-842-14	Sequence 16, Appl
C 713	14	2.3	830	4	US-09-134-001C-1065	Sequence 1065, Ap	C 786	14	2.3	1021	4	US-09-280-116-85	Sequence 85, Appl
C 714	14	2.3	831	4	US-08-470-369-3	Sequence 3, Appl	C 787	14	2.3	1032	1	US-08-375-186-1	Sequence 1, Appl
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C 716	14	2.3	856	1	US-08-665-119-1	Sequence 1, Appl	C 789	14	2.3	1032	1	US-08-812-025-4	Sequence 4, Appl
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## ALIGNMENTS

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RESULT 1
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; Sequence 5, Application US/08446794A
; Patent No. 5747327
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; GENERAL INFORMATION:
; APPLICANT: Ueki, Jun
; APPLICANT: MORIOKA, SHINJI
; TITLE OF INVENTION: PHOSPHOLIPASE D GENE ORIGINATED FROM
; TITLE OF INVENTION: PLANT
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: BIRCH, STEWART, KOLASCH AND BIRCH
; STREET: P.O. BOX 747
; CITY: FALLS CHURCH
; STATE: VA
; COUNTRY: VA
; ZIP: 22040-0747
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/446,794A
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: MURPHY JR, GERALD M
; REGISTRATION NUMBER: 28,977
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; TELECOMMUNICATION INFORMATION:
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; TELEFAX: 703-205-8050
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; TOPOLOGY: linear
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; LOCATION: 2524..2799
US-08-446-794A-5
Query Match 100.0%; Score 614; DB 1; Length 2799;
Best Local Similarity 100.0%; Pred. No. 2,5e-289;
Matches 614; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCGGCCAGCGGAAGCCGCCCAAGTTCATCCGGAAGTTGGAACCTTCTTAACT 60
DB 1947 CCGGCCAGCGGAAGCCGCCCAAGTTCATCCGGAAGTTGGAACCTTCTTAACT 2006
QY 61 ACTGCTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
DB 2007 ACTGCTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2066
QY 121 AGCCGAATTTGATCTGCTGACAGTACAGTACAGTACAGTACAGTACAGTACAGT 180
DB 2067 AGCCGAATTTGATCTGCTGACAGTACAGTACAGTACAGTACAGTACAGTACAGT 2126
QY 181 TCTGATTTATTAAGAAAATTAAGAGTAGTAGACAGATTTGAGATCTTCTATCAA 240
DB 2127 TCTGATTTATTAAGAAAATTAAGAGTAGTAGACAGATTTGAGATCTTCTATCAA 2186
QY 241 GATTGCTATTTATGCTTGCCATTTCTTGTGACCCAGTACTTCTTGAATCTAGAG 300
DB 2187 GATTGCTATTTATGCTTGCCATTTCTTGTGACCCAGTACTTCTTGAATCTAGAG 2246
QY 301 TTGCTGTGTGTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 360
DB 2247 TTGCTGTGTGTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2306
QY 361 AAATTTATTTATTAAGTAACTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 420
DB 2307 AAATTTATTTATTAAGTAACTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 2366
QY 421 TGTGTACCAAAAATCTGATTTGATAGAGTTTATTTATTTATTTATTTATTTATTTATTT 480
DB 2367 TGTGTACCAAAAATCTGATTTGATAGAGTTTATTTATTTATTTATTTATTTATTTATTT 2426
QY 481 AATCTATTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCT 540
DB 2427 AATCTATTGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCT 2486
QY 541 GTTGTCTTGTATCAACGAGAGCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 600
DB 2487 GTTGTCTTGTATCAACGAGAGCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 2546
QY 601 TGTGGGTGTGGCA 614
DB 2547 TGTGGGTGTGGCA 2560

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RESULT 2
US-08-750-007-4
; Sequence 4, Application US/08750007
; Patent No. 5801016
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; GENERAL INFORMATION:
; APPLICANT: MORIOKA, SHINJI
; APPLICANT: Ueki, Jun
; TITLE OF INVENTION: DNA FRAGMENT, RECOMBINANT VECTOR
; TITLE OF INVENTION: CONTAINING THE SAME AND METHOD FOR EXPRESSING FOREIGN
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: BIRCH, STEWART, KOLASCH AND BIRCH
; STREET: PO BOX 747
; CITY: FALLS CHURCH
; STATE: VA
; COUNTRY: VA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

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STREET: PO BOX 747  
CITY: FALLS CHURCH  
STATE: VA  
COUNTRY: USA  
ZIP: 22040-0747  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/750,007  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: MURPHY JR, GERALD M  
REGISTRATION NUMBER: 28,977  
REFERENCE/DOCKET NUMBER: 0760-221P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 205-8000  
TELEFAX: (703) 205-8050  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3040 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA to mRNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 182..2617  
US-08-750-007-2

Query Match  
Best Local Similarity 6.4%; Score 39; DB 1; Length 3040;  
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 576 AGTTTGTGAGGGGATTGAGACACTGTGGGTGGCGCA 614  
DB 288 AGTTTGTGAGGGGATTGAGACACTGTGGGTGGCGCA 326

RESULT 5  
US-08-945-024-1  
Sequence 1, Application US/08945024  
Patent No. 5973226  
GENERAL INFORMATION:  
APPLICANT: Ueki, Jun  
TITLE OF INVENTION: METHOD FOR CHANGING COMPOSITION OF  
TITLE OF INVENTION: PHOSPHOLIPIDS PRODUCED BY ORGANISM AND RECOMBINANT VECTOR  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: BIRCH, STEWART, KOLASCH AND BIRCH, LLP  
STREET: PO BOX 747  
CITY: FALLS CHURCH  
STATE: VA  
COUNTRY: USA  
ZIP: 22040-0747  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/945,024  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: MURPHY JR, GERALD M  
REGISTRATION NUMBER: 28,977  
REFERENCE/DOCKET NUMBER: 760-236

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 205-8000  
TELEFAX: (703) 205-8050  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3040 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA to mRNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 182..2617  
US-08-945-024-1

Query Match  
Best Local Similarity 6.4%; Score 39; DB 2; Length 3040;  
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 576 AGTTTGTGAGGGGATTGAGACACTGTGGGTGGCGCA 614  
DB 288 AGTTTGTGAGGGGATTGAGACACTGTGGGTGGCGCA 326

RESULT 6  
US-08-446-794A-3  
Sequence 3, Application US/08446794A  
Patent No. 5747327  
GENERAL INFORMATION:  
APPLICANT: Ueki, Jun  
TITLE OF INVENTION: PHOSPHOLIPASE D GENE ORIGINATED FROM  
TITLE OF INVENTION: PLANT  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: BIRCH, STEWART, KOLASCH AND BIRCH  
STREET: P.O. BOX 747  
CITY: FALLS CHURCH  
STATE: VA  
COUNTRY: USA  
ZIP: 22040-0747  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/446,794A  
FILING DATE:  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: MURPHY JR, GERALD M  
REGISTRATION NUMBER: 28,977  
REFERENCE/DOCKET NUMBER: 0760-0203P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703-205-8000  
TELEFAX: 703-205-8050  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2804 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA to mRNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 107..2542  
US-08-446-794A-3

Query Match  
Best Local Similarity 3.7%; Score 23; DB 1; Length 2804;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



APPLICATION NUMBER: US/08/952,973  
FILING DATE: 06-JAN-1998  
CLASSIFICATION: 435  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: PCT/IB96/00562  
FILING DATE: 06-JUN-1996  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: EP 95401322.3  
FILING DATE: 08-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Granados, Patricia D.  
REGISTRATION NUMBER: 33,683  
REFERENCE/DOCKET NUMBER: 065691/0129  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 139 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
US-08-952-973-17

Query Match 2.9%; Score 18; DB 3; Length 139;  
Best Local Similarity 100.0%; Pred. No. 13;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 308 TGTGTGATGTGTGTGTGTG 325  
Db 86 TGTGTGATGTGTGTGTGTG 69

RESULT 10  
US-09-641-638-458/c  
Sequence 458, Application US/09641638  
Patent No. 6432648  
GENERAL INFORMATION:  
APPLICANT: Blumenfeld, Marta  
APPLICANT: Bougueleret, Lydie  
APPLICANT: Chumakov, Ilya  
APPLICANT: Cohen, Annick  
TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING  
TITLE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM  
FILE REFERENCE: GENSET.051CP1  
CURRENT APPLICATION NUMBER: US/09/641,638  
PRIOR FILING DATE: 2000-08-16  
PRIOR APPLICATION NUMBER: US 09/502,330  
PRIOR FILING DATE: 2000-02-11  
PRIOR APPLICATION NUMBER: US 60/133,200  
PRIOR FILING DATE: 1999-05-07  
PRIOR APPLICATION NUMBER: US 09/275,267  
PRIOR FILING DATE: 1999-03-23  
PRIOR APPLICATION NUMBER: US 60/119,917  
PRIOR FILING DATE: 1999-02-12  
NUMBER OF SEQ ID NOS: 1304  
SOFTWARE: Patent.pm  
SEQ ID NO 458  
LENGTH: 1001  
TYPE: DNA  
ORGANISM: Homo Sapiens  
FEATURE:  
NAME/KEY: allele  
LOCATION: 501  
OTHER INFORMATION: 12-310-105 : polymorphic base G or C  
NAME/KEY: misc\_binding  
LOCATION: 481..500  
OTHER INFORMATION: 12-310-105.misl, potential  
NAME/KEY: misc\_binding  
LOCATION: 502..521  
OTHER INFORMATION: 12-310-105.mis2, potential complement

NAME/KEY: primer bind  
LOCATION: 397..415  
OTHER INFORMATION: upstream amplification primer  
NAME/KEY: primer\_bind  
LOCATION: 826..845  
OTHER INFORMATION: downstream amplification primer, complement  
NAME/KEY: misc\_binding  
LOCATION: 489..513  
OTHER INFORMATION: 12-310-105 potential probe  
US-09-641-638-458

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Best Local Similarity 100.0%; Pred. No. 12;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 453 TTTATTATTATTATTACT 470  
Db 265 TTTATTATTATTATTACT 248

RESULT 11  
US-08-973-462-1  
Sequence 1, Application US/08973462B  
Patent No. 6191270  
GENERAL INFORMATION:  
APPLICANT: DRULHE, PIERRE  
APPLICANT: DAUBERSIES, PIERRE  
TITLE OF INVENTION: MALARIAL PRE-ERYTHROCYTIC STAGE POLYPEPTIDE MOLECULES  
FILE REFERENCE: 0660-0125-0 PCT  
CURRENT APPLICATION NUMBER: US/08/973,462B  
PRIOR FILING DATE: 1998-02-06  
PRIOR APPLICATION NUMBER: PCT/FR96/00894  
EARLIER FILING DATE: 1996-06-12  
EARLIER APPLICATION NUMBER: FR 95/07007  
EARLIER FILING DATE: 1995-06-13  
NUMBER OF SEQ ID NOS: 29  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1  
LENGTH: 6152  
TYPE: DNA  
ORGANISM: P. falciparum  
US-08-973-462-1

Query Match 2.9%; Score 18; DB 4; Length 6152;  
Best Local Similarity 100.0%; Pred. No. 11;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 451 TTTTATTATTATTATTA 468  
Db 397 TTTTATTATTATTATTA 414

RESULT 12  
US-09-078-294-4/c  
Sequence 4, Application US/09078294  
Patent No. 6265211  
GENERAL INFORMATION:  
APPLICANT: Choo, Kong-Hong Andy  
APPLICANT: Du Sart, Desiree  
APPLICANT: Cancilla, Michael R.  
TITLE OF INVENTION: A NOVEL NUCLEIC ACID MOLECULE  
FILE REFERENCE: Davies Col  
CURRENT APPLICATION NUMBER: US/09/078,294  
PRIOR FILING DATE: 1998-05-13  
NUMBER OF SEQ ID NOS: 29  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4  
LENGTH: 80246  
TYPE: DNA  
ORGANISM: Nucleotide sequence of NC-contig  
US-09-078-294-4

Query Match 2.9%; Score 18; DB 4; Length 80246;



Best Local Similarity 100.0%; Pred. No. 11;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 451 TTTTATTTATTTATTA 468  
Db 33054 TTTTATTTATTTATTA 33037

RESULT 13  
US-09-078-294-3/c  
Sequence 3, Application US/09078294  
Patent No. 6265211  
GENERAL INFORMATION:  
APPLICANT: Choo, Kong-Hong Andy  
APPLICANT: Du Sart, Desiree  
APPLICANT: Cancilla, Michael R.  
TITLE OF INVENTION: A NOVEL NUCLEIC ACID MOLECULE  
FILE REFERENCE: Davies Col  
CURRENT APPLICATION NUMBER: US/09/078,294  
CURRENT FILING DATE: 1998-05-13  
NUMBER OF SEQ ID NOS: 29  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 3  
LENGTH: 80595  
TYPE: DNA  
ORGANISM: Nucleotide sequence of HC-contig  
US-09-078-294-3

Query Match 2.9%; Score 18; DB 4; Length 80595;  
Best Local Similarity 100.0%; Pred. No. 11;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 451 TTTTATTTATTTATTA 468  
Db 33307 TTTTATTTATTTATTA 33290

RESULT 14  
US-08-623-906A-16  
Sequence 16, Application US/08623906A  
Patent No. 5874217  
GENERAL INFORMATION:  
APPLICANT: Stevenson, Tamara  
APPLICANT: Dvorak, Jan  
APPLICANT: Halverson, Joy  
TITLE OF INVENTION: Microsatellite Sequences for Canine  
NUMBER OF SEQUENCES: 60  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FLEHR, HOEBACH, TEST, ALBRITTON & HERBERT  
STREET: 4 Embarcadero Center, Suite 3400  
City: San Francisco  
STATE: CA  
COUNTRY: US  
ZIP: 94111-4187  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/623,906A  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Sherwood, Pamela J.  
REGISTRATION NUMBER: 36,677  
REFERENCE/DOCKET NUMBER: A-62282/BIR  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-781-1989  
TELEFAX: 415-398-3249  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:

LENGTH: 251 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: 1..131  
OTHER INFORMATION: /note= "Nucleotides 1-131 are  
OTHER INFORMATION: unique flanking sequence"  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: 132..186  
OTHER INFORMATION: /note= "Nucleotides 132-186 are  
OTHER INFORMATION: repeat sequence"  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: 187..251  
OTHER INFORMATION: /note= "Nucleotides 187-251 are  
OTHER INFORMATION: unique flanking sequence"  
US-08-623-906A-16

Query Match 2.8%; Score 17; DB 2; Length 251;  
Best Local Similarity 100.0%; Pred. No. 38;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 450 GTTTTATTTATTTATTT 466  
Db 129 GTTTTATTTATTTATTT 145

RESULT 15  
US-09-328-111-329/c  
Sequence 329, Application US/09328111  
Patent No. 6262333  
GENERAL INFORMATION:  
APPLICANT: Endege, Wilson O.  
APPLICANT: Steinmann, Kathleen E.  
APPLICANT: Astle, Jon H.  
APPLICANT: Burgess, Christopher C.  
APPLICANT: Bushnell, Steven E.  
APPLICANT: Carroll III, Eddie  
APPLICANT: Catino, Theodore J.  
APPLICANT: Dertl, Adnan  
APPLICANT: Ford, Donna M.  
APPLICANT: Lewis, Marcia E.  
APPLICANT: Monahan, John E.  
TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION  
FILE REFERENCE: CCD-257 (US)  
CURRENT APPLICATION NUMBER: US/09/328,111  
CURRENT FILING DATE: 1999-06-08  
EARLIER APPLICATION NUMBER: US 60/088,801  
EARLIER FILING DATE: 1998-06-10  
NUMBER OF SEQ ID NOS: 850  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 329  
LENGTH: 467  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: (1)..(467)  
OTHER INFORMATION: n = A,T,C or G  
US-09-328-111-329

Query Match 2.8%; Score 17; DB 4; Length 467;  
Best Local Similarity 100.0%; Pred. No. 37;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 453 TTTTATTTATTTATTA 469  
Db 33307 TTTTATTTATTTATTA 33290

Fri Apr 4 08:49:33 2003

us-09-856-725-2.oligo.rni

Page 14

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GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

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6190.586 Million cell updates/sec

Title: US-09-856-725-2

Perfect score: 614  
Sequence: 1 ccgcgcacagcggaagcgccc.....ggacactgtcgttcgga 614

Scoring table: OLIGO\_NUC  
Gapop 60.0 , Gapext 60.0

Searched: 593429 seqs, 438583890 residues

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Total number of hits satisfying chosen parameters: 1186858

Minimum DB seq length: 0  
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- 12: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq:\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	23	3.7	2997	9 US-10-078-770-125	Sequence 125, App
2	20	3.3	2000	9 US-09-938-842A-5092	Sequence 5092, App
3	19	3.1	302	10 US-09-969-373-413	Sequence 413, App
4	19	3.1	302	10 US-09-969-373-417	Sequence 4207, App
5	19	3.1	1288	9 US-09-938-842A-4207	Sequence 4207, App
6	19	3.1	1305	9 US-09-822-846-50	Sequence 20, Appl
7	19	3.1	2000	9 US-09-938-842A-4381	Sequence 4381, App
8	19	3.1	249487	9 US-10-026-188-3	Sequence 3, Appl1
9	18	2.9	117	10 US-09-969-373-1357	Sequence 1357, App
10	18	2.9	131	10 US-09-969-373-1077	Sequence 1077, App
11	18	2.9	140	10 US-09-969-373-387	Sequence 387, App
12	18	2.9	145	10 US-09-969-373-422	Sequence 422, App
13	18	2.9	145	10 US-09-969-373-517	Sequence 517, App
14	18	2.9	246	10 US-09-923-876-2923	Sequence 2923, App
15	18	2.9	284	10 US-09-969-373-616	Sequence 616, App
16	18	2.9	284	10 US-09-969-373-617	Sequence 617, App
17	18	2.9	306	10 US-09-969-373-1187	Sequence 1187, App
18	18	2.9	417	10 US-09-960-352-12649	Sequence 12649, A
19	18	2.9	1301	9 US-09-938-842A-2724	Sequence 2724, App

20	18	2.9	1500	10 US-09-974-300-172	Sequence 172, App
21	18	2.9	1923	9 US-09-938-842A-3051	Sequence 3051, App
22	18	2.9	2000	9 US-09-938-842A-4103	Sequence 4103, App
23	18	2.9	6152	9 US-09-742-096-1	Sequence 1, Appl1
24	18	2.9	11185	10 US-09-764-860-1096	Sequence 1096, App
25	18	2.9	21358	9 US-09-764-872-816	Sequence 816, App
26	18	2.9	21676	9 US-09-764-872-815	Sequence 815, App
27	18	2.9	23603	9 US-09-860-670-264	Sequence 264, App
28	18	2.9	23613	9 US-09-860-670-258	Sequence 258, App
29	18	2.9	24218	9 US-09-860-670-263	Sequence 263, App
30	18	2.9	32190	9 US-09-860-670-255	Sequence 255, App
31	18	2.9	32249	9 US-09-860-670-260	Sequence 260, App
32	18	2.9	126512	10 US-09-804-474A-3	Sequence 3, Appl1
33	18	2.9	170834	10 US-09-835-232-7	Sequence 314, Appl1
34	18	2.9	174424	10 US-09-967-768A-114	Sequence 73, Appl1
35	17	2.8	96	10 US-09-969-373-73	Sequence 39, Appl1
36	17	2.8	107	10 US-09-969-373-39	Sequence 1392, App
37	17	2.8	148	10 US-09-969-373-1392	Sequence 1442, App
38	17	2.8	148	10 US-09-969-373-1442	Sequence 1179, App
39	17	2.8	178	10 US-09-969-373-988	Sequence 988, App
40	17	2.8	178	10 US-09-969-373-989	Sequence 989, App
41	17	2.8	178	10 US-09-969-373-141	Sequence 141, App
42	17	2.8	223	10 US-09-969-373-142	Sequence 142, App
43	17	2.8	223	10 US-09-969-373-1531	Sequence 1531, App
44	17	2.8	231	10 US-09-969-373-1295	Sequence 1295, App
45	17	2.8	239	10 US-09-969-373-1295	Sequence 422, App
46	17	2.8	262	10 US-09-969-373-1295	Sequence 1702, App
47	17	2.8	275	10 US-09-954-456-1702	Sequence 637, App
48	17	2.8	441	9 US-10-025-380-637	Sequence 637, App
49	17	2.8	441	10 US-09-922-217-637	Sequence 637, App
50	17	2.8	441	10 US-09-833-263-637	Sequence 637, App
51	17	2.8	456	10 US-09-770-444-533	Sequence 533, App
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95	17	2.8	1297	9	US-09-997-428-224	Sequence 224, App	168	17	2.8	1297	9	US-10-180-548-599	Sequence 599, App
96	17	2.8	1297	9	US-09-997-666-224	Sequence 224, App	169	17	2.8	1297	9	US-10-180-551-599	Sequence 599, App
97	17	2.8	1297	9	US-10-173-700-599	Sequence 599, App	170	17	2.8	1297	9	US-10-180-998-599	Sequence 599, App
98	17	2.8	1297	9	US-10-174-572-599	Sequence 599, App	171	17	2.8	1297	9	US-10-180-999-599	Sequence 599, App
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108	17	2.8	1297	9	US-10-176-747-599	Sequence 599, App	181	17	2.8	1297	9	US-10-184-632-599	Sequence 599, App
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266	17	2.8	1297	9	US-09-991-172-224	Sequence 224, App	339	17	2.8	1297	9	US-10-201-324-599	Sequence 599, App
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287	17	2.8	1297	9	US-10-197-708-599	Sequence 599, App	360	17	2.8	1297	9	US-09-997-683-224	Sequence 224, App
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290	17	2.8	1297	9	US-10-198-768-599	Sequence 599, App	363	17	2.8	1297	9	US-10-196-758-599	Sequence 599, App
291	17	2.8	1297	9	US-10-198-769-599	Sequence 599, App	364	17	2.8	1297	9	US-10-198-770-599	Sequence 599, App
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293	17	2.8	1297	9	US-10-199-306-599	Sequence 599, App	366	17	2.8	1297	9	US-10-200-617-599	Sequence 599, App
294	17	2.8	1297	9	US-10-199-310-599	Sequence 599, App	367	17	2.8	1297	9	US-10-200-617-599	Sequence 599, App
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C 387	17	2.8	1732	10	US-09-789-561-21	Sequence 21, Appl	C 460	16	2.6	251	10	US-09-789-561-21	Sequence 16, Appl
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C 389	17	2.8	2000	9	US-09-938-842A-3128	Sequence 4239, Ap	C 462	16	2.6	255	10	US-09-878-574-6286	Sequence 5955, Ap
C 390	17	2.8	2000	10	US-09-887-576-547	Sequence 57, Appl	C 463	16	2.6	269	10	US-09-764-872-167	Sequence 167, App
C 391	17	2.8	2000	10	US-09-887-576-547	Sequence 836, App	C 464	16	2.6	275	10	US-09-867-701-4976	Sequence 4976, App
C 392	17	2.8	2000	10	US-09-887-576-547	Sequence 236, App	C 465	16	2.6	285	10	US-10-040-739-1271	Sequence 1271, App
C 393	17	2.8	2004	10	US-09-887-576-547	Sequence 25, Appl	C 466	16	2.6	303	10	US-09-925-300-90	Sequence 10103, A
C 394	17	2.8	2317	9	US-10-097-065-25	Sequence 297, App	C 467	16	2.6	308	10	US-09-736-457-1111	Sequence 90, Appl
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C 397	17	2.8	3097	10	US-09-962-832-227	Sequence 1, Appl	C 470	16	2.6	313	9	US-10-017-754-1111	Sequence 1111, Ap
C 398	17	2.8	4285	9	US-10-104-580-1	Sequence 2824, Ap	C 471	16	2.6	313	9	US-09-732-785-249	Sequence 1949, Ap
C 399	17	2.8	4369	10	US-09-764-877-2824	Sequence 2124, Ap	C 472	16	2.6	313	9	US-09-917-800A-632	Sequence 632, App
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C 402	17	2.8	9375	10	US-09-764-877-3449	Sequence 835, App	C 475	16	2.6	330	9	US-09-803-719-1116	Sequence 1116, App
C 403	17	2.8	9384	10	US-09-764-877-3449	Sequence 1153, App	C 476	16	2.6	335	10	US-09-960-352-13489	Sequence 13489, A
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C 405	17	2.8	10190	10	US-09-960-253-163	Sequence 892, App	C 478	16	2.6	352	9	US-09-232-785-278	Sequence 278, App
C 406	17	2.8	10211	10	US-09-864-864-292	Sequence 936, App	C 479	16	2.6	363	9	US-09-736-457-878	Sequence 878, App
C 407	17	2.8	10211	10	US-09-954-456-1153	Sequence 1394, Ap	C 480	16	2.6	363	9	US-09-902-941-1143	Sequence 878, App
C 408	17	2.8	11186	10	US-09-967-768A-186	Sequence 36, Appl	C 481	16	2.6	367	9	US-10-017-754-878	Sequence 878, App
C 409	17	2.8	25393	10	US-09-957-997-1	Sequence 1542, Ap	C 482	16	2.6	367	9	US-09-736-457-1143	Sequence 867, App
C 410	17	2.8	25395	10	US-09-764-853-692	Sequence 3, Appl	C 483	16	2.6	367	9	US-09-736-457-1143	Sequence 867, App
C 411	17	2.8	25395	10	US-09-764-853-690	Sequence 5, Appl	C 484	16	2.6	367	9	US-09-849-626-867	Sequence 867, App
C 412	17	2.8	25395	10	US-09-764-853-936	Sequence 890, App	C 485	16	2.6	367	9	US-10-017-754-867	Sequence 867, App
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C 414	17	2.8	84539	10	US-09-962-436-36	Sequence 1136, Ap	C 487	16	2.6	367	9	US-09-736-457-1038	Sequence 1038, App
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C 418	17	2.8	402850	9	US-09-844-653-5	Sequence 803, App	C 491	16	2.6	367	9	US-09-736-457-1038	Sequence 1038, App
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C 426	16	2.6	34	10	US-09-263-959-803	Sequence 721, App	C 499	16	2.6	367	9	US-09-736-457-1038	Sequence 1038, App
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C 429	16	2.6	100	10	US-09-969-373-1013	Sequence 1136, App	C 502	16	2.6	367	9	US-09-736-457-1038	Sequence 1038, App
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C 533	16	2.6	401	10	US-09-795-688-1023	Sequence 1023, Ap
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535	16	2.6	406	9	US-09-728-444-660	Sequence 60, Appl
536	16	2.6	406	10	US-09-960-352-10265	Sequence 10265, A
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543	16	2.6	434	9	US-09-232-785-250	Sequence 250, Appl
C 544	16	2.6	434	10	US-09-960-352-6721	Sequence 6721, Ap
545	16	2.6	440	9	US-10-091-504-1631	Sequence 1631, Ap
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547	16	2.6	441	10	US-09-925-300-170	Sequence 170, Appl
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C 549	16	2.6	449	10	US-09-983-965-3441	Sequence 3441, Ap
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C 551	16	2.6	453	10	US-09-764-869-1633	Sequence 1633, Ap
C 552	16	2.6	456	10	US-09-867-701-6946	Sequence 6946, Ap
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555	16	2.6	463	10	US-09-867-701-4459	Sequence 4459, Ap
556	16	2.6	466	10	US-09-864-864-97	Sequence 97, Appl
557	16	2.6	475	10	US-09-864-761-6001	Sequence 6001, Ap
C 558	16	2.6	476	10	US-09-864-761-216	Sequence 216, Appl
559	16	2.6	477	10	US-09-747-155-217	Sequence 217, Appl
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C 561	16	2.6	481	9	US-09-938-842A-3499	Sequence 3499, Ap
C 562	16	2.6	481	10	US-09-864-761-1345	Sequence 16345, A
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C 564	16	2.6	483	10	US-09-864-761-16053	Sequence 16053, A
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C 566	16	2.6	503	10	US-09-864-761-8602	Sequence 8602, Ap
C 567	16	2.6	505	10	US-09-783-590-9372	Sequence 9372, Ap
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C 569	16	2.6	510	10	US-09-783-590-4045	Sequence 4045, Ap
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571	16	2.6	524	10	US-09-864-761-8751	Sequence 8751, Ap
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C 574	16	2.6	547	9	US-09-232-785-277	Sequence 277, Appl
C 575	16	2.6	551	10	US-09-998-598-1340	Sequence 1340, Ap
C 576	16	2.6	568	10	US-09-864-761-6806	Sequence 6806, Ap
C 577	16	2.6	574	10	US-09-864-761-7656	Sequence 7656, Ap
C 578	16	2.6	589	10	US-09-864-761-6977	Sequence 6977, Ap
C 579	16	2.6	593	10	US-09-864-761-7053	Sequence 7053, Ap
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582	16	2.6	601	10	US-09-741-148A-35	Sequence 35, Appl
583	16	2.6	601	10	US-09-777-921A-68	Sequence 68, Appl
584	16	2.6	613	10	US-09-833-381-1883	Sequence 1883, Ap
C 585	16	2.6	643	10	US-09-770-149-554	Sequence 594, Appl
C 586	16	2.6	663	9	US-10-071-766-105	Sequence 105, Appl
C 587	16	2.6	669	9	US-09-895-913A-203	Sequence 203, Appl
C 588	16	2.6	685	10	US-09-770-149-336	Sequence 326, Appl
589	16	2.6	727	9	US-09-796-692-6558	Sequence 6558, Ap
590	16	2.6	793	10	US-09-878-574-4304	Sequence 4304, Ap
C 591	16	2.6	877	9	US-09-938-842A-3164	Sequence 3164, Ap
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593	16	2.6	969	10	US-09-925-300-485	Sequence 485, Appl
C 594	16	2.6	971	9	US-10-102-806-61	Sequence 61, Appl
C 595	16	2.6	1070	10	US-09-747-368-1	Sequence 1, Appl
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C 597	16	2.6	1176	9	US-10-084-205-7	Sequence 7, Appl
C 598	16	2.6	1176	10	US-09-815-242-8855	Sequence 8855, Ap
C 599	16	2.6	1176	10	US-09-815-242-9021	Sequence 9021, Ap
C 600	16	2.6	1176	10	US-09-925-637-7	Sequence 7, Appl
C 601	16	2.6	1180	10	US-09-881-752A-247	Sequence 247, Appl
C 602	16	2.6	1185	9	US-09-938-842A-1289	Sequence 1289, Ap
C 603	16	2.6	1206	10	US-09-964-824A-233	Sequence 233, Appl
C 604	16	2.6	1206	10	US-09-969-708-458	Sequence 458, Appl
C 605	16	2.6	1206	10	US-09-880-107-1652	Sequence 1652, Ap
C 606	16	2.6	1221	10	US-09-815-242-7150	Sequence 7150, Ap
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C 612	16	2.6	1423	9	US-10-001-857-100	Sequence 100, Appl
C 613	16	2.6	1503	9	US-09-938-842A-1473	Sequence 1473, Ap
C 614	16	2.6	1521	9	US-09-822-846-580	Sequence 580, Appl
C 615	16	2.6	1593	10	US-09-814-777A-31	Sequence 31, Appl
616	16	2.6	1672	9	US-09-938-842A-3244	Sequence 3244, Ap
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C 843	16	2.6	1977	9	US-10-205-899-503	Sequence 503, App	C 916	16	2.6	2478	9	US-10-176-758-107	Sequence 107, App
C 844	16	2.6	1977	9	US-10-205-900-503	Sequence 503, App	C 917	16	2.6	2478	9	US-10-175-737-107	Sequence 107, App
C 845	16	2.6	1977	9	US-10-205-909-503	Sequence 503, App	C 918	16	2.6	2478	9	US-10-173-706-107	Sequence 107, App
C 846	16	2.6	1977	9	US-10-183-002-503	Sequence 503, App	C 919	16	2.6	2478	9	US-10-175-738-107	Sequence 107, App
C 847	16	2.6	1977	9	US-10-184-621-503	Sequence 503, App	C 920	16	2.6	2478	9	US-10-175-752-107	Sequence 107, App
C 848	16	2.6	1977	9	US-10-184-638-503	Sequence 503, App	C 921	16	2.6	2478	9	US-10-176-482-107	Sequence 107, App
C 849	16	2.6	1977	9	US-10-187-752-503	Sequence 503, App	C 922	16	2.6	2478	9	US-10-176-757-107	Sequence 107, App
C 850	16	2.6	1977	9	US-10-187-887-503	Sequence 503, App	C 923	16	2.6	2478	9	US-10-176-913-107	Sequence 107, App
C 851	16	2.6	1977	9	US-10-194-461-503	Sequence 503, App	C 924	16	2.6	2478	9	US-10-180-552-107	Sequence 107, App
C 852	16	2.6	1977	9	US-10-195-892-503	Sequence 503, App	C 925	16	2.6	2478	9	US-10-180-557-107	Sequence 107, App
C 853	16	2.6	1977	9	US-10-196-751-503	Sequence 503, App	C 926	16	2.6	2478	9	US-10-173-700-107	Sequence 107, App
C 854	16	2.6	1977	9	US-10-197-694-503	Sequence 503, App	C 927	16	2.6	2478	9	US-10-174-572-107	Sequence 107, App
C 855	16	2.6	1977	9	US-10-197-697-503	Sequence 503, App	C 928	16	2.6	2478	9	US-10-174-579-107	Sequence 107, App
C 856	16	2.6	1977	9	US-10-197-707-503	Sequence 503, App	C 929	16	2.6	2478	9	US-10-174-582-107	Sequence 107, App
C 857	16	2.6	1977	9	US-10-199-303-503	Sequence 503, App	C 930	16	2.6	2478	9	US-10-174-588-107	Sequence 107, App
C 858	16	2.6	1977	9	US-10-199-318-503	Sequence 503, App	C 931	16	2.6	2478	9	US-10-175-739-107	Sequence 107, App
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C 860	16	2.6	1977	9	US-10-199-462-503	Sequence 503, App	C 933	16	2.6	2478	9	US-10-175-743-107	Sequence 107, App
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C 863	16	2.6	1977	9	US-10-201-527-503	Sequence 503, App	C 936	16	2.6	2478	9	US-10-176-747-107	Sequence 107, App
C 864	16	2.6	1977	9	US-10-201-528-503	Sequence 503, App	C 937	16	2.6	2478	9	US-10-176-750-107	Sequence 107, App
C 865	16	2.6	1977	9	US-10-201-529-503	Sequence 503, App	C 938	16	2.6	2478	9	US-10-176-985-107	Sequence 107, App
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C 868	16	2.6	1977	9	US-10-202-409-503	Sequence 503, App	C 941	16	2.6	2478	9	US-10-176-992-107	Sequence 107, App
C 869	16	2.6	1977	9	US-10-202-411-503	Sequence 503, App	C 942	16	2.6	2478	9	US-10-176-993-107	Sequence 107, App
C 870	16	2.6	1977	9	US-10-202-472-503	Sequence 503, App	C 943	16	2.6	2478	9	US-10-184-658-107	Sequence 107, App
C 871	16	2.6	1977	9	US-10-205-502-503	Sequence 503, App	C 944	16	2.6	2478	9	US-10-173-695-107	Sequence 107, App
C 872	16	2.6	1977	9	US-10-205-507-503	Sequence 503, App	C 945	16	2.6	2478	9	US-10-173-697-107	Sequence 107, App
C 873	16	2.6	1977	9	US-10-205-511-503	Sequence 503, App	C 946	16	2.6	2478	9	US-10-173-705-107	Sequence 107, App
C 874	16	2.6	1977	9	US-10-205-902-503	Sequence 503, App	C 947	16	2.6	2478	9	US-10-174-576-107	Sequence 107, App
C 875	16	2.6	1977	9	US-10-205-907-503	Sequence 503, App	C 948	16	2.6	2478	9	US-10-174-585-107	Sequence 107, App
C 876	16	2.6	1977	9	US-10-194-456-503	Sequence 503, App	C 949	16	2.6	2478	9	US-10-174-586-107	Sequence 107, App
C 877	16	2.6	1977	9	US-10-196-758-503	Sequence 503, App	C 950	16	2.6	2478	9	US-10-175-747-107	Sequence 107, App
C 878	16	2.6	1977	9	US-10-198-770-503	Sequence 503, App	C 951	16	2.6	2478	9	US-10-176-481-107	Sequence 107, App
C 879	16	2.6	1977	9	US-10-199-308-503	Sequence 503, App	C 952	16	2.6	2478	9	US-10-176-485-107	Sequence 107, App
C 880	16	2.6	1977	9	US-10-200-617-503	Sequence 503, App	C 953	16	2.6	2478	9	US-10-176-487-107	Sequence 107, App
C 881	16	2.6	1977	9	US-10-205-893-503	Sequence 503, App	C 954	16	2.6	2478	9	US-10-176-493-107	Sequence 107, App
C 882	16	2.6	1977	9	US-10-205-897-503	Sequence 503, App	C 955	16	2.6	2478	9	US-10-176-756-107	Sequence 107, App
C 883	16	2.6	1977	12	US-10-036-342-79	Sequence 79, App1	C 956	16	2.6	2478	9	US-10-176-911-107	Sequence 107, App
C 884	16	2.6	1977	12	US-10-052-586-503	Sequence 503, App	C 957	16	2.6	2478	9	US-10-176-919-107	Sequence 107, App
C 885	16	2.6	2000	9	US-09-938-842A-3022	Sequence 3022, Ap	C 958	16	2.6	2478	9	US-10-176-925-107	Sequence 107, App
C 886	16	2.6	2000	9	US-09-938-842A-3279	Sequence 3279, Ap	C 959	16	2.6	2478	9	US-10-176-978-107	Sequence 107, App
C 887	16	2.6	2000	9	US-09-938-842A-3632	Sequence 3632, Ap	C 960	16	2.6	2478	9	US-10-179-510-107	Sequence 107, App
C 888	16	2.6	2000	9	US-09-938-842A-3781	Sequence 3781, Ap	C 961	16	2.6	2478	9	US-10-180-543-107	Sequence 107, App
C 889	16	2.6	2000	9	US-09-938-842A-3944	Sequence 3944, Ap	C 962	16	2.6	2478	9	US-10-180-544-107	Sequence 107, App
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C 891	16	2.6	2000	9	US-09-938-842A-4322	Sequence 4322, Ap	C 964	16	2.6	2478	9	US-10-180-547-107	Sequence 107, App
C 892	16	2.6	2000	9	US-09-938-842A-4370	Sequence 4370, Ap	C 965	16	2.6	2478	9	US-10-180-549-107	Sequence 107, App
C 893	16	2.6	2000	9	US-09-938-842A-4412	Sequence 4412, Ap	C 966	16	2.6	2478	9	US-10-180-555-107	Sequence 107, App
C 894	16	2.6	2000	9	US-09-938-842A-4871	Sequence 4871, Ap	C 967	16	2.6	2478	9	US-10-180-559-107	Sequence 107, App
C 895	16	2.6	2000	9	US-09-938-842A-4994	Sequence 4994, Ap	C 968	16	2.6	2478	9	US-10-181-000-107	Sequence 107, App

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969 16 2.6 2478 9 US-10-183-010-107 Sequence 107, App
970 16 2.6 2478 9 US-10-183-012-107 Sequence 107, App
971 16 2.6 2478 9 US-10-184-614-107 Sequence 107, App
972 16 2.6 2478 9 US-10-184-623-107 Sequence 107, App
973 16 2.6 2478 9 US-10-184-635-107 Sequence 107, App
974 16 2.6 2478 9 US-10-184-637-107 Sequence 107, App
975 16 2.6 2478 9 US-10-184-646-107 Sequence 107, App
976 16 2.6 2478 9 US-10-184-647-107 Sequence 107, App
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983 16 2.6 2478 9 US-10-189-464-107 Sequence 107, App
984 16 2.6 2478 9 US-10-176-751-107 Sequence 107, App
985 16 2.6 2478 9 US-10-176-760-107 Sequence 107, App
986 16 2.6 2478 9 US-10-176-990-107 Sequence 107, App
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988 16 2.6 2478 9 US-10-180-542-107 Sequence 107, App
989 16 2.6 2478 9 US-10-180-548-107 Sequence 107, App
990 16 2.6 2478 9 US-10-180-551-107 Sequence 107, App
991 16 2.6 2478 9 US-10-180-998-107 Sequence 107, App
992 16 2.6 2478 9 US-10-180-999-107 Sequence 107, App
993 16 2.6 2478 9 US-10-183-013-107 Sequence 107, App
994 16 2.6 2478 9 US-10-184-612-107 Sequence 107, App
995 16 2.6 2478 9 US-10-184-616-107 Sequence 107, App
996 16 2.6 2478 9 US-10-184-617-107 Sequence 107, App
997 16 2.6 2478 9 US-10-184-622-107 Sequence 107, App
998 16 2.6 2478 9 US-10-184-628-107 Sequence 107, App
999 16 2.6 2478 9 US-10-184-629-107 Sequence 107, App
1000 16 2.6 2478 12 US-10-052-586-107 Sequence 107, App
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## ALIGNMENTS

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RESULT 1
US-10-078-770-125
; Sequence 125, Application us/10078770
; Publication No. US20030003471A1
; GENERAL INFORMATION:
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Forge, Charlie
; APPLICANT: Miao, Guo-Hua
; TITLE OF INVENTION: CDNAS Encoding Polypeptides
; FILE REFERENCE: BB-1365 US NA
; CURRENT APPLICATION NUMBER: US/10/078.770
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: 09/614,188
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: 60/143,400
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/153,534
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: 60/161,223
; PRIOR FILING DATE: 1999-10-22
; PRIOR APPLICATION NUMBER: 60/159,878
; PRIOR FILING DATE: 1999-10-15
; PRIOR APPLICATION NUMBER: 60/157,401
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: 60/143,419
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/143,409
; PRIOR FILING DATE: 1999-07-12
; NUMBER OF SEQ ID NOS: 196
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 125
; LENGTH: 2997
; TYPE: DNA
; ORGANISM: Trifolium aestivum
US-10-078-770-125
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Query Match 3.7%; Score 23; DB 9; Length 2997;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 15 GCGCCCCCAAGTTCATCCGCAAG 37
DB 216 GCGCCCCCAAGTTCATCCGCAAG 238
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RESULT 2
US-09-938-842A-5092/c
; Sequence 5092, Application US/09938842A
; Patent No. US20020160378A1
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Krebs, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SCRIPI300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 5092
; LENGTH: 2000
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-5092
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Query Match 3.3%; Score 20; DB 9; Length 2000;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 447 AGAGTTTATTATTATTATTATT 466
DB 714 AGAGTTTATTATTATTATTATT 695
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RESULT 3
US-09-969-373-413/c
; Sequence 413, Application US/09969373
; Patent No. US20020133852A1
; GENERAL INFORMATION:
; APPLICANT: Eferetz, Roger J.
; APPLICANT: Hauge, Brian M.
; TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping
; FILE REFERENCE: 38-10(52679)A
; CURRENT APPLICATION NUMBER: US/09/969,373
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 09/754,853
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: US 09/760,427
; PRIOR FILING DATE: 2001-01-13
; PRIOR APPLICATION NUMBER: US 09/855,768
; PRIOR FILING DATE: 2001-05-15
; NUMBER OF SEQ ID NOS: 4593
; SEQ ID NO 413
; LENGTH: 302
; TYPE: DNA
; ORGANISM: Glycine max
US-09-969-373-413
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Query Match 3.1%; Score 19; DB 10; Length 302;
Best Local Similarity 100.0%; Pred. No. 7.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 452 TTTTATTATTATTACT 470  
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Db 113 TTTTATTATTATTACT 95

## RESULT 4

US-09-969-373-417/C  
; Sequence 417, Application US/09969373  
; Patent No. US2002013852A1  
; GENERAL INFORMATION:  
; APPLICANT: Efferetz, Roger J.  
; APPLICANT: Hauge, Brian M.  
; TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping  
; FILE REFERENCE: 38-10(52679)A  
; CURRENT APPLICATION NUMBER: US/09/969,373  
; PRIOR FILING DATE: 2001-10-02  
; PRIOR APPLICATION NUMBER: US 09/754,853  
; PRIOR FILING DATE: 2001-01-05  
; PRIOR APPLICATION NUMBER: US 09/760,427  
; PRIOR FILING DATE: 2001-01-13  
; PRIOR APPLICATION NUMBER: US 09/855,768  
; PRIOR FILING DATE: 2001-05-15  
; NUMBER OF SEQ ID NOS: 4593  
; SEQ ID NO 417  
; LENGTH: 302  
; TYPE: DNA  
; ORGANISM: Glycine max  
US-09-969-373-417

Query Match 3.1%; Score 19; DB 10; Length 302;  
Best Local Similarity 100.0%; Pred. No. 7.6;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 452 TTTTATTATTATTACT 470  
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Db 113 TTTTATTATTATTACT 95

## RESULT 5

US-09-938-842A-4207  
; Sequence 4207, Application US/09938842A  
; Patent No. US20020160378A1  
; GENERAL INFORMATION:  
; APPLICANT: Harper, Jeff  
; APPLICANT: Kreps, Joel  
; APPLICANT: Wang, Xun  
; APPLICANT: Zhu, Tong  
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING  
; FILE REFERENCE: SRIPI300-3  
; CURRENT APPLICATION NUMBER: US/09/938,842A  
; PRIOR FILING DATE: 2001-08-24  
; PRIOR APPLICATION NUMBER: US 60/227,866  
; PRIOR FILING DATE: 2000-08-24  
; PRIOR APPLICATION NUMBER: US 60/264,647  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/300,111  
; PRIOR FILING DATE: 2001-06-22  
; NUMBER OF SEQ ID NOS: 5379  
; SEQ ID NO 4207  
; LENGTH: 1288  
; TYPE: DNA  
; ORGANISM: Arabidopsis thaliana  
US-09-938-842A-4207

Query Match 3.1%; Score 19; DB 9; Length 1288;  
Best Local Similarity 100.0%; Pred. No. 8.6;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 308 TGTGTGATGTGTGTGTGT 326  
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Db 44 TGTGTGATGTGTGTGTGT 62

## RESULT 6

US-09-822-846-20/C  
; Sequence 20, Application US/09822846  
; Publication No. US20030027139A1  
; GENERAL INFORMATION:  
; APPLICANT: Jacobs, Kenneth  
; APPLICANT: McCoy, John M.  
; APPLICANT: Lavallie, Edward R.  
; APPLICANT: Collins-Racie, Lisa A.  
; APPLICANT: Evans, Cheryl  
; APPLICANT: Merberg, David  
; APPLICANT: Treacy, Maurice  
; APPLICANT: Agostino, Michael J.  
; APPLICANT: Steininger II, Robert J.  
; APPLICANT: Bowman, Michael R.  
; APPLICANT: Spaulding, Vikki  
; APPLICANT: Wong, Gordon G.  
; APPLICANT: Clark, Hilary  
; APPLICANT: Fectel, Kim  
; APPLICANT: Howes, Steven H.  
; APPLICANT: Resnick, Richard J.  
; APPLICANT: Gulukota, Kamalakara  
; APPLICANT: Graham, James R.  
; APPLICANT: Genetics Institute, Inc.  
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING NOVEL SECRETED PROTEINS  
; FILE REFERENCE: GIN 6400  
; CURRENT APPLICATION NUMBER: US/09/822,846  
; PRIOR FILING DATE: 2001-03-29  
; PRIOR APPLICATION NUMBER: 60/195,605  
; PRIOR FILING DATE: 2000-04-06  
; NUMBER OF SEQ ID NOS: 629  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 20  
; LENGTH: 1305  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-822-846-20

Query Match 3.1%; Score 19; DB 9; Length 1305;  
Best Local Similarity 100.0%; Pred. No. 8.7;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 72 CTCCTGCTCTTTCTTTT 90  
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Db 868 CTCCTGCTCTTTCTTTT 850

## RESULT 7

US-09-938-842A-4381/C  
; Sequence 4381, Application US/09938842A  
; Patent No. US20020160378A1  
; GENERAL INFORMATION:  
; APPLICANT: Harper, Jeff  
; APPLICANT: Kreps, Joel  
; APPLICANT: Wang, Xun  
; APPLICANT: Zhu, Tong  
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING  
; FILE REFERENCE: SRIPI300-3  
; CURRENT APPLICATION NUMBER: US/09/938,842A  
; PRIOR FILING DATE: 2001-08-24  
; PRIOR APPLICATION NUMBER: US 60/227,866  
; PRIOR FILING DATE: 2000-08-24  
; PRIOR APPLICATION NUMBER: US 60/264,647  
; PRIOR FILING DATE: 2001-01-16  
; PRIOR APPLICATION NUMBER: US 60/300,111  
; PRIOR FILING DATE: 2001-06-22  
; NUMBER OF SEQ ID NOS: 5379  
; SEQ ID NO 4381  
; LENGTH: 2000  
; TYPE: DNA  
; ORGANISM: Arabidopsis thaliana  
US-09-938-842A-4381/C

US-09-938-842A-4381

Query Match 3.1%; Score 19; DB 9; Length 2000;

Best Local Similarity 100.0%; Pred. No. 9;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 448 GAGTTTATTATTATTATT 466

DB 598 GAGTTTATTATTATTATT 580

RESULT 8

US-10-026-188-3/c

Sequence 3, Application US/10026188

Patent No. US2002016465A1

GENERAL INFORMATION:

APPLICANT: Zuker, Charles S.

APPLICANT: Zhang, Yifeng

TITLE OF INVENTION: The Regents of the University of California

TITLE OF INVENTION: Assays for Taste Receptor Cell Specific

FILE REFERENCE: 02307E-114910US

CURRENT APPLICATION NUMBER: US/10/026,188

CURRENT FILING DATE: 2001-12-21

PRIOR APPLICATION NUMBER: US 60/259,379

PRIOR FILING DATE: 2000-12-29

NUMBER OF SEQ ID NOS: 8

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 3

LENGTH: 249487

TYPE: DNA

ORGANISM: Mus musculus

FEATURE:

OTHER INFORMATION: mouse genomic region containing ltrcps

US-10-026-188-3

Query Match 3.1%; Score 19; DB 9; Length 249487;

Best Local Similarity 100.0%; Pred. No. 14;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 314 ATGTGCTGTGTTTGTCT 332

DB 177388 ATGTGCTGTGTTTGTCT 177370

RESULT 9

US-09-969-373-1357/c

Sequence 1357, Application US/09969373

Patent No. US2002013852A1

GENERAL INFORMATION:

APPLICANT: Effertz, Roger J.

APPLICANT: Hauge, Brian M.

TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping

FILE REFERENCE: 38-10(52679)A

CURRENT APPLICATION NUMBER: US/09/969,373

CURRENT FILING DATE: 2001-10-02

PRIOR APPLICATION NUMBER: US 09/754,853

PRIOR FILING DATE: 2001-01-05

PRIOR APPLICATION NUMBER: US 09/760,427

PRIOR FILING DATE: 2001-01-13

PRIOR APPLICATION NUMBER: US 09/855,768

NUMBER OF SEQ ID NOS: 4593

SEQ ID NO 1357

LENGTH: 117

TYPE: DNA

ORGANISM: Glycine max

US-09-969-373-1357

Query Match 2.9%; Score 18; DB 10; Length 117;

Best Local Similarity 100.0%; Pred. No. 23;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 449 AGTTTATTATTATTATT 466

DB 60 AGTTTATTATTATTATT 43

RESULT 10

US-09-969-373-1077/c

Sequence 1077, Application US/09969373

Patent No. US2002013852A1

GENERAL INFORMATION:

APPLICANT: Effertz, Roger J.

APPLICANT: Hauge, Brian M.

TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping

FILE REFERENCE: 38-10(52679)A

CURRENT APPLICATION NUMBER: US/09/969,373

CURRENT FILING DATE: 2001-10-02

PRIOR APPLICATION NUMBER: US 09/754,853

PRIOR FILING DATE: 2001-01-05

PRIOR APPLICATION NUMBER: US 09/760,427

PRIOR FILING DATE: 2001-01-13

PRIOR APPLICATION NUMBER: US 09/855,768

NUMBER OF SEQ ID NOS: 4593

SEQ ID NO 1077

LENGTH: 131

TYPE: DNA

ORGANISM: Glycine max

US-09-969-373-1077

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Best Local Similarity 100.0%; Pred. No. 23;

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DB 56 AGTTTATTATTATTATT 39

RESULT 11

US-09-969-373-387

Sequence 387, Application US/09969373

Patent No. US2002013852A1

GENERAL INFORMATION:

APPLICANT: Effertz, Roger J.

APPLICANT: Hauge, Brian M.

TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping

FILE REFERENCE: 38-10(52679)A

CURRENT APPLICATION NUMBER: US/09/969,373

CURRENT FILING DATE: 2001-10-02

PRIOR APPLICATION NUMBER: US 09/754,853

PRIOR FILING DATE: 2001-01-05

PRIOR APPLICATION NUMBER: US 09/760,427

PRIOR FILING DATE: 2001-01-13

PRIOR APPLICATION NUMBER: US 09/855,768

NUMBER OF SEQ ID NOS: 4593

SEQ ID NO 387

LENGTH: 140

TYPE: DNA

ORGANISM: Glycine max

US-09-969-373-387

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RESULT 12

US-09-969-373-422

Fri Apr 4 08:49:33 2003

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; GENERAL INFORMATION:
; APPLICANT: Efferetz, Roger J.
; TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping
; FILE REFERENCE: 38-10(52679)A
; CURRENT APPLICATION NUMBER: US/09/969,373
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 09/754,853
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: US 09/760,427
; PRIOR FILING DATE: 2001-01-13
; PRIOR APPLICATION NUMBER: US 09/855,768
; PRIOR FILING DATE: 2001-05-15
; NUMBER OF SEQ ID NOS: 4593
; SEQ ID NO 422
; LENGTH: 145
; TYPE: DNA
; ORGANISM: Glycine max
US-09-969-373-422

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; Patent No. US20020133852A1
; GENERAL INFORMATION:
; APPLICANT: Efferetz, Roger J.
; APPLICANT: Hauge, Brian M.
; TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping
; FILE REFERENCE: 38-10(52679)A
; CURRENT APPLICATION NUMBER: US/09/969,373
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 09/754,853
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: US 09/760,427
; PRIOR FILING DATE: 2001-01-13
; PRIOR APPLICATION NUMBER: US 09/855,768
; PRIOR FILING DATE: 2001-05-15
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US-09-969-373-517

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; APPLICANT: Ialjudi, Raghnunath V.
; APPLICANT: Kamigaki, Laura Y. (Ito)
; APPLICANT: Sherman, Bradley K.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN SEEDLING

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; PRIOR APPLICATION NUMBER: 60/085,331
; PRIOR FILING DATE: 1998-05-05
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; NAME/KEY: misc feature
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; LOCATION: 187
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US-09-923-876-2923

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; GENERAL INFORMATION:
; APPLICANT: Efferetz, Roger J.
; APPLICANT: Hauge, Brian M.
; TITLE OF INVENTION: Soybean SSRs and Methods of Genotyping
; FILE REFERENCE: 38-10(52679)A
; CURRENT APPLICATION NUMBER: US/09/969,373
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 09/754,853
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: US 09/760,427
; PRIOR FILING DATE: 2001-01-13
; PRIOR APPLICATION NUMBER: US 09/855,768
; PRIOR FILING DATE: 2001-05-15
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US-09-969-373-616

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Query Match
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Search completed: April 3, 2003, 13:36:46  
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GenCore version 5.1.3  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 3, 2003, 11:35:08 ; Search time 1429 Seconds

(without alignments)  
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Title: US-09-856-725-2

Perfect score: 614  
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Gapop 60.0 , Gapext 60.0

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Post-processing: Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a  
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# SUMMARIES

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C 204	19	3.1	720	13	BI137637	602859672
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C 206	19	3.1	737	9	AU213797	602859672
C 207	19	3.1	737	10	AV716641	602859672
C 208	19	3.1	743	17	AZ956596	602859672
C 209	19	3.1	749	17	BH595963	602859672
C 210	19	3.1	751	12	BG722964	602859672
C 211	19	3.1	752	13	BI128415	602859672
C 212	19	3.1	764	10	AW906711	602859672
C 213	19	3.1	767	17	BH260906	602859672
C 214	19	3.1	787	9	AL692232	602859672
C 215	19	3.1	800	17	BH479528	602859672
C 216	19	3.1	802	17	BH035305	602859672
C 217	19	3.1	802	17	BH250603	602859672
C 218	19	3.1	813	17	BH442900	602859672
C 219	19	3.1	822	17	CNS011WB	602859672
C 220	19	3.1	835	17	AZ671021	602859672
C 221	19	3.1	840	9	AU136903	602859672
C 222	19	3.1	850	17	BH348288	602859672
C 223	19	3.1	878	17	AZ681716	602859672
C 224	19	3.1	878	17	CNS02RXL	602859672
C 225	19	3.1	892	14	BQ231024	602859672



C 226	19	3.1	892	17	AZ533893	AZ533893	ENTDC54TF	C 299	18	2.9	294	10	BA437769	BA437769
C 227	19	3.1	902	9	AL544339	AL544339	ENTF4839	C 300	18	2.9	300	14	BM747975	BM747975
C 228	19	3.1	902	17	AZ544540	AZ544540	ENTF4839	C 301	18	2.9	300	14	C36547	C36547
C 229	19	3.1	916	10	BE375360	BE375360	601230343	C 302	18	2.9	301	17	AZ252135	AZ252135
C 230	19	3.1	925	14	BO434941	BO434941	AGENCOURT	C 303	18	2.9	303	10	AV531212	AV531212
C 231	19	3.1	928	17	CNS01G8A	ALI43445	Anopheles	C 304	18	2.9	304	10	BB116481	BB116481
C 232	19	3.1	930	10	BE196282	BE196282	HVSMH009	C 305	18	2.9	305	10	AV535102	AV535102
C 233	19	3.1	934	12	BG472890	BG472890	602514804	C 306	18	2.9	306	10	AV820740	AV820740
C 234	19	3.1	964	17	CNS00H2H	AL074542	Drosophila	C 307	18	2.9	306	13	BI845411	BI845411
C 235	19	3.1	969	17	CNS0062F	AL061698	Drosophila	C 308	18	2.9	308	10	AV997840	AV997840
C 236	19	3.1	972	17	CNS005H7	AL059508	Drosophila	C 309	18	2.9	309	14	BO385132	BO385132
C 237	19	3.1	973	12	BGS32484	BGS32484	602562028	C 310	18	2.9	310	10	AV531946	AV531946
C 238	19	3.1	1021	17	CNS00H5S	AL073911	Drosophila	C 311	18	2.9	310	10	AM432760	AM432760
C 239	19	3.1	1026	12	BG430680	BG430680	602498476	C 312	18	2.9	311	13	BO364923	BO364923
C 240	19	3.1	1058	12	BF143661	BF143661	601789726	C 313	18	2.9	313	9	AU039316	AU039316
C 241	19	3.1	1070	17	CNS05513	AL351224	Tetradon	C 314	18	2.9	313	9	AU053382	AU053382
C 242	19	3.1	1147	12	BGS69885	BGS69885	602681236	C 315	18	2.9	314	14	BO011618	BO011618
C 243	19	3.1	1184	12	BG111370	BG111370	602281772	C 316	18	2.9	316	9	AI740189	AI740189
C 244	19	3.1	1545	11	BC018679	BC018679	Homo sapi	C 317	18	2.9	319	9	AI934808	AI934808
C 245	19	3.1	1582	12	BE964258	BE964258	601657950	C 318	18	2.9	320	12	BF095509	BF095509
C 246	18	2.9	85	17	AZ775490	AZ775490	HUMG000837	C 319	18	2.9	321	14	BB390735	BB390735
C 247	18	2.9	85	17	AZ775490	AZ775490	2M0008007	C 320	18	2.9	323	10	BB001265	BB001265
C 248	18	2.9	110	17	AO251305	AO251305	T31Ac-Sp6	C 321	18	2.9	325	17	BR852694	BR852694
C 249	18	2.9	123	9	AU264160	AU264160	Arabiadops	C 322	18	2.9	328	12	C94139	C94139
C 250	18	2.9	129	17	AL765370	AL765370	Arabiadops	C 323	18	2.9	333	14	AM562372	AM562372
C 251	18	2.9	141	13	BJ392241	BJ392241	Bj392241	C 324	18	2.9	337	10	AZ840479	AZ840479
C 252	18	2.9	151	13	BJ364688	BJ364688	Bj364688	C 325	18	2.9	339	17	AM562372	AM562372
C 253	18	2.9	162	10	BB276236	BB276236	BB276236	C 326	18	2.9	340	9	AU266072	AU266072
C 254	18	2.9	171	10	AV973266	AV973266	AV973266	C 327	18	2.9	341	17	AZ808459	AZ808459
C 255	18	2.9	183	10	AV785947	AV785947	AV785947	C 328	18	2.9	346	17	AZ760262	AZ760262
C 256	18	2.9	183	17	TA21BH12P	TA21BH12P	T. Brucei	C 329	18	2.9	348	9	AA367957	AA367957
C 257	18	2.9	186	13	BGS95361	BGS95361	CMO-CT081	C 330	18	2.9	349	10	AV532329	AV532329
C 258	18	2.9	199	17	AZ077776	AZ077776	RPCI-23-4	C 331	18	2.9	351	9	AA720650	AA720650
C 259	18	2.9	189	10	AM569073	AM569073	s163b01.Y	C 332	18	2.9	356	9	AA720801	AA720801
C 260	18	2.9	194	13	BU421123	BU421123	BU421123	C 333	18	2.9	356	17	AZ279780	AZ279780
C 261	18	2.9	201	10	BE468418	BE468418	IDHAK0262	C 334	18	2.9	361	17	AZ288171	AZ288171
C 262	18	2.9	202	10	AM201397	AM201397	sE02F02.Y	C 335	18	2.9	362	10	AV385116	AV385116
C 263	18	2.9	205	10	AV532084	AV532084	AV532084	C 336	18	2.9	366	9	AU276737	AU276737
C 264	18	2.9	209	10	BE062510	BE062510	OV4-HT025	C 337	18	2.9	366	17	BB5177	BB5177
C 265	18	2.9	211	10	AV531771	AV531771	AV531771	C 338	18	2.9	367	9	AA769180	AA769180
C 266	18	2.9	214	17	BH652981	BH652981	BOMK428TF	C 339	18	2.9	368	17	AZ181428	AZ181428
C 267	18	2.9	227	17	AZ532295	AZ532295	474.dhz97	C 340	18	2.9	369	13	BI794921	BI794921
C 268	18	2.9	228	10	AV359093	AV359093	AV359093	C 341	18	2.9	370	12	BG388078	BG388078
C 269	18	2.9	236	10	BB321982	BB321982	BB321982	C 342	18	2.9	370	12	CG38038	CG38038
C 270	18	2.9	238	10	AV411661	AV411661	AV411661	C 343	18	2.9	370	17	AO017898	AO017898
C 271	18	2.9	240	9	AU071444	AU071444	AU071444	C 344	18	2.9	370	17	AO908353	AO908353
C 272	18	2.9	240	9	AU071741	AU071741	AU071741	C 345	18	2.9	372	10	BB668242	BB668242
C 273	18	2.9	240	9	AU072133	AU072133	AU072133	C 346	18	2.9	373	17	AO207155	AO207155
C 274	18	2.9	242	13	BU367836	BU367836	BU367836	C 347	18	2.9	374	10	AV536087	AV536087
C 275	18	2.9	246	9	AV286157	AV286157	AV286157	C 348	18	2.9	375	17	BH720587	BH720587
C 276	18	2.9	250	10	AV521460	AV521460	AV521460	C 349	18	2.9	375	10	AV802503	AV802503
C 277	18	2.9	250	14	C91405	C91405	D1cT	C 350	18	2.9	378	13	BA425006	BA425006
C 278	18	2.9	251	10	BB056751	BB056751	BB056751	C 351	18	2.9	379	10	AV535807	AV535807
C 279	18	2.9	254	10	BB331839	BB331839	BB331839	C 352	18	2.9	379	17	AO472817	AO472817
C 280	18	2.9	255	10	AM659403	AM659403	96549.MAR	C 353	18	2.9	380	17	AZ715525	AZ715525
C 281	18	2.9	259	12	BE820808	BE820808	CM700013A	C 354	18	2.9	380	12	BGS09841	BGS09841
C 282	18	2.9	262	10	AM076260	AM076260	614063C05	C 355	18	2.9	384	9	AI661260	AI661260
C 283	18	2.9	266	10	AV886734	AV886734	AV886734	C 356	18	2.9	384	9	AU018402	AU018402
C 284	18	2.9	268	9	AV267684	AV267684	AV267684	C 357	18	2.9	384	10	AV533534	AV533534
C 285	18	2.9	269	10	AV298563	AV298563	AV298563	C 358	18	2.9	385	9	ALB03503	ALB03503
C 286	18	2.9	270	13	BU336468	BU336468	BU336468	C 359	18	2.9	390	13	BM642172	BM642172
C 287	18	2.9	271	10	BB485078	BB485078	BB485078	C 360	18	2.9	391	17	AZ178800	AZ178800
C 288	18	2.9	274	14	BP027843	BP027843	BP027843	C 361	18	2.9	392	10	AV534740	AV534740
C 289	18	2.9	278	10	BB348769	BB348769	BB348769	C 362	18	2.9	392	10	AV534785	AV534785
C 290	18	2.9	280	9	AI661090	AI661090	mz58909.x	C 363	18	2.9	393	10	AV535179	AV535179
C 291	18	2.9	283	14	T77150	T77150	yc72c04.r1	C 364	18	2.9	393	17	AZ241381	AZ241381
C 292	18	2.9	284	9	AI560534	AI560534	tcq7912.x	C 365	18	2.9	393	12	DR21K13S	DR21K13S
C 293	18	2.9	285	10	BA438351	BA438351	BA438351	C 366	18	2.9	395	17	BF277536	BF277536
C 294	18	2.9	285	10	BA486600	BA486600	BA486600	C 367	18	2.9	395	14	N72483	N72483
C 295	18	2.9	287	10	AM168407	AM168407	x182F08.x	C 368	18	2.9	396	9	AU037680	AU037680
C 296	18	2.9	288	10	AM374654	AM374654	MRI-CT005	C 369	18	2.9	397	10	AV675112	AV675112
C 297	18	2.9	289	17	AZ652032	AZ652032	IM0521P08	C 370	18	2.9	397	12	BB444743	BB444743
C 298	18	2.9	293	17	AZ370262	AZ370262	IM0121P08	C 371	18	2.9	397	13	BI744560	BI744560

372	18	2.9	398	9	A1677970	A1677970 wc81c01.x	445	18	2.9	460	10	AMS62696	AMS62696 660065B08
373	18	2.9	398	17	AZ290550	AZ290550 RPCI-23-1	446	18	2.9	460	10	AZ221302	AZ221302 GM_UMB001
374	18	2.9	399	9	AU016113	AU016113 AU016113	447	18	2.9	461	9	AA463923	AA463923 aa10609.s
375	18	2.9	399	10	AV992359	AV992359 AV992359	448	18	2.9	461	10	AV992610	AV992610 AV992610
376	18	2.9	399	12	BF962283	BF962283 OV2-NN004	449	18	2.9	461	17	AQ104882	AQ104882 HS_2166_A
377	18	2.9	400	10	AW045354	AW045354 UI-M-BH1-	450	18	2.9	463	14	CB4211	CB4211 C84211 Dict
378	18	2.9	402	10	BB816979	BB816979 BB816979	451	18	2.9	463	17	BB845075	BB845075 TC3-51H1
379	18	2.9	404	9	A1168605	A1168605 ox11e10.s	452	18	2.9	463	17	BB845075	AQ339658 HS_2216_A
380	18	2.9	405	12	BG626259	BG626259 CC-eeff1dL	453	18	2.9	464	10	AV522589	AV522589 AV522589
381	18	2.9	405	14	BQ478618	BQ478618 1k61c04.x	454	18	2.9	464	17	AZ241705	AZ241705 RPCI-23-8
382	18	2.9	407	17	B39000	B39000 HS-1048-B2-	455	18	2.9	464	17	AZ606029	AZ606029 1M0427010
383	18	2.9	407	17	B39000	B39000 HS-1048-B2-	456	18	2.9	465	10	AV556939	AV556939 AV556939
384	18	2.9	408	10	AV812134	AV812134 AV812134	457	18	2.9	465	17	AQ690530	AQ690530 nbxb00820
385	18	2.9	408	13	BM176039	BM176039 T9ESTzyd2	458	18	2.9	466	12	BC306297	A1488073 tm65h09.x
386	18	2.9	408	13	BM176039	BM176039 T9ESTzyd2	459	18	2.9	466	12	BC306297	BC306297 fms7a10.x
387	18	2.9	408	14	T97362	T97362 yef5h04.sl	460	18	2.9	467	17	AQ737789	AQ737789 HS_2250_B
388	18	2.9	408	17	AQ831285	AQ831285 HS_5427_B	461	18	2.9	469	10	AV531381	AV531381 AV531381
389	18	2.9	409	10	BE125079	BE125079 DCL_15_E0	462	18	2.9	469	10	AV534098	AV534098 AV534098
390	18	2.9	409	17	DR1616T	DR1616T DMLC10T	463	18	2.9	470	10	AV988891	AV988891 AV988891
391	18	2.9	410	10	AV871794	AV871794 AV871794	464	18	2.9	470	17	BH121267	BH121267 SALK_0080
392	18	2.9	411	9	A1941612	A1941612 618032B02	465	18	2.9	471	10	AV531702	AV531702 AV531702
393	18	2.9	412	10	AV788163	AV788163 AV788163	466	18	2.9	473	10	AV531554	AV531554 AV531554
394	18	2.9	412	17	AQ730582	AQ730582 RPCI-23-1	467	18	2.9	473	10	AV976107	AV976107 AV976107
395	18	2.9	412	17	AQ730582	AQ730582 RPCI-23-1	468	18	2.9	474	9	A1465061	A1465061 vm63c03.y
396	18	2.9	414	14	R91717	R91717 yp96d03.r1	469	18	2.9	474	12	BF164140	BF164140 601772878
397	18	2.9	415	10	AV532335	AV532335 AV532335	470	18	2.9	475	17	AZ243197	AZ243197 RPCI-23-3
398	18	2.9	415	10	AV978192	AV978192 AV978192	471	18	2.9	476	10	BB839015	BB839015 BB839015
399	18	2.9	415	14	BP024117	BP024117 BP024117	472	18	2.9	478	10	AV537267	AV537267 AV537267
400	18	2.9	416	10	AV786600	AV786600 AV786600	473	18	2.9	478	12	BF711888	BF711888 MI-P-O3-A
401	18	2.9	416	10	AV803627	AV803627 AV803627	474	18	2.9	478	14	N61453	N61453 T9ESTzyd7E0
402	18	2.9	417	10	AV788179	AV788179 AV788179	475	18	2.9	479	17	AQ710700	AQ710700 HS_5344_A
403	18	2.9	417	13	BI032422	BI032422 CM3-NN025	476	18	2.9	481	12	BB667319	BB667319 DR1616T
404	18	2.9	419	12	BG026139	BG026139 602291956	477	18	2.9	481	17	AQ665939	AQ665939 HS_5372_B
405	18	2.9	420	17	AZ884207	AZ884207 RPCI-23-1	478	18	2.9	482	12	BC069216	BC069216 H3074A04-
406	18	2.9	421	10	AV383031	AV383031 AV383031	479	18	2.9	482	13	BJ366622	BJ366622 BJ366622
407	18	2.9	425	10	AV787872	AV787872 AV787872	480	18	2.9	482	17	AZ027346	AZ027346 RPCI-23-3
408	18	2.9	425	10	AV819367	AV819367 AV819367	481	18	2.9	482	17	AZ143712	AZ143712 SP_0012_B
409	18	2.9	426	10	AV791880	AV791880 AV791880	482	18	2.9	483	10	AV563554	AV563554 AV563554
410	18	2.9	428	12	BG98357	BG98357 HOA5-1-E	483	18	2.9	484	17	AQ690305	AQ690305 ndxb0081J
411	18	2.9	428	13	BJ368570	BJ368570 BJ368570	484	18	2.9	485	12	BE991129	BE991129 UI-M-BZ1-
412	18	2.9	430	10	AV563384	AV563384 AV563384	485	18	2.9	485	17	AQ582292	AQ582292 RPCI-11-4
413	18	2.9	430	14	R21979	R21979 yh24c11.r1	486	18	2.9	486	14	C90714	C90714 C90714 Dict
414	18	2.9	431	10	AV520271	AV520271 AV520271	487	18	2.9	487	10	AV559708	AV559708 AV559708
415	18	2.9	431	10	AV863687	AV863687 AV863687	488	18	2.9	487	10	AMS00222	AMS00222 UI-HF-BM0
416	18	2.9	432	17	AZ882238	AZ882238 RPCI-23-1	489	18	2.9	488	12	BF732780	BF732780 nae15c04.
417	18	2.9	433	13	BM143886	BM143886 sa149h10.	490	18	2.9	489	9	AA822395	AA822395 vm37c04.x
418	18	2.9	434	9	AA605582	AA605582 30618.Lam	491	18	2.9	490	10	AV563555	AV563555 AV563555
419	18	2.9	436	9	A1466044	A1466044 vm37c04.y	492	18	2.9	490	10	BE198576	BE198576 ug80b09.y
420	18	2.9	436	10	AV796732	AV796732 AV796732	493	18	2.9	491	10	BE198576	BE198576 HS_5249_A
421	18	2.9	436	10	AV983810	AV983810 AV983810	494	18	2.9	491	10	BE549501	BE549501 7b42f11.x
422	18	2.9	436	10	AV520412	AV520412 AV520412	495	18	2.9	491	17	BT1812	BT1812 RPCI11-10P1
423	18	2.9	441	10	BE157205	BE157205 RCO-HT037	496	18	2.9	492	17	AZ822409	AZ822409 2M0095011
424	18	2.9	442	13	BM309182	BM309182 BAK55f02.	497	18	2.9	493	10	AMS59188	AMS59188 660065B08
425	18	2.9	443	14	H58814	H58814 yf36h07.sl	498	18	2.9	494	10	BE692388	BE692388 uw11b05.x
426	18	2.9	443	17	AQ820825	AQ820825 HS_5263_B	499	18	2.9	495	9	A1294578	A1294578 lp07986.5
427	18	2.9	443	17	AZ142898	AZ142898 SP_0011_A	500	18	2.9	496	17	AZ614663	AZ614663 1M0443N05
428	18	2.9	445	10	AV793748	AV793748 AV793748	501	18	2.9	496	17	AZ977859	AZ977859 2M0253022
429	18	2.9	445	10	AV977908	AV977908 AV977908	502	18	2.9	496	17	BH119321	BH119321 RPCI-24-3
430	18	2.9	445	14	R78003	R78003 y176d05.r1	503	18	2.9	498	10	BE111296	BE111296 UI-R-BJ1-
431	18	2.9	448	9	A1175935	A1175935 E57219508	504	18	2.9	498	10	AZ096691	AZ096691 RPCI-23-4
432	18	2.9	449	9	AV440893	AV440893 AV440893	505	18	2.9	499	17	AQ485075	AQ485075 RPCI-11-2
433	18	2.9	449	12	BF555873	BF555873 UI-R-A1-d	506	18	2.9	500	9	AU267555	AU267555 AU267555
434	18	2.9	449	17	AQ226282	AQ226282 HS_2015_B	507	18	2.9	500	17	BH019237	BH019237 l2547b.d-
435	18	2.9	451	9	A1416768	A1416768 sa18f02.y	508	18	2.9	501	12	BC082237	BC082237 H3074A04-
436	18	2.9	451	10	AV952076	AV952076 AV952076	509	18	2.9	501	17	AQ381078	AQ381078 RPCI11-16
437	18	2.9	452	17	AQ059444	AQ059444 CTT-HSP-2	510	18	2.9	501	17	BE356416	BE356416 DGL_125_D
438	18	2.9	453	17	AZ081173	AZ081173 RPCI-23-4	511	18	2.9	502	10	AZ095733	AZ095733 RPCI-23-4
439	18	2.9	453	17	B39818	B39818 HS-1050-B1-	512	18	2.9	503	17	AZ053536	AZ053536 RPCI-23-3
440	18	2.9	454	9	AA504152	AA504152 aa59f03.s	513	18	2.9	503	17	AQ338481	AQ338481 HS_3118_B
441	18	2.9	454	9	A1941879	A1941879 JAA000290	514	18	2.9	508	9	A1779609	A1779609 EST260488
442	18	2.9	457	10	AV991967	AV991967 AV991967	515	18	2.9	508	17	BH316115	BH316115 HS_3245_B
443	18	2.9	459	9	A1631594	A1631594 wa99h03.x	516	18	2.9	510	10	AM497471	AM497471 660052E01
444	18	2.9	459	10	AM676919	AM676919 DGL_2_E11	517	18	2.9				

518	18	2.9	510	17	AQ830015	AQ830015 HS_4829_B	C 591	18	2.9	565	13	BM036252	BM036252 fu17f10.Y
519	18	2.9	512	17	AZ417214	AZ417214 1M01920J17	C 592	18	2.9	566	17	BH056443	BH056443 RPTC1-24-3
520	18	2.9	513	14	BQ438375	BQ438375 AGENCOURT	C 593	18	2.9	566	9	AL675675	AL675675 AL675675
521	18	2.9	515	17	BH207099	BH207099 Sml-47P20	C 594	18	2.9	566	10	AV535345	AV535345 AV535345
522	18	2.9	516	9	AI952107	AI952107 wx48D03.x	C 595	18	2.9	566	17	AO668685	AO668685 HS_5425_A
523	18	2.9	516	9	AU261456	AU261456 AU261456	C 596	18	2.9	568	17	AZ614674	AZ614674 1M0443P05
524	18	2.9	516	13	BJ365484	BJ365484 BJ365484	C 597	18	2.9	573	10	AM534387	AM534387 UI-R-C4-a
525	18	2.9	517	10	AW772120	AW772120 hm67901.x	C 598	18	2.9	574	14	C91220	C91220 C91220 Dict
526	18	2.9	517	17	BH192142	BH192142 TC3--69D15	C 599	18	2.9	574	17	TA297A04P	TA297A04P T. Bruce1
527	18	2.9	518	10	AV527024	AV527024 AV527024	C 600	18	2.9	575	10	BE038542	BE038542 AA18H08_A
528	18	2.9	520	14	BM881205	BM881205 rh07C06.Y	C 601	18	2.9	576	13	BJ327258	BJ327258 BJ327258
529	18	2.9	523	17	AZ2326081	AZ2326081 1M00482B	C 602	18	2.9	576	13	AL636914	AL636914 AL636914
530	18	2.9	523	17	AZ209559	AZ209559 RPTC1-24-1	C 603	18	2.9	578	10	AV532116	AV532116 AV532116
531	18	2.9	524	17	AZ376513	AZ376513 1M0130122	C 604	18	2.9	578	12	BC321377	BC321377 Ds01_06D0
532	18	2.9	525	13	BJ048756	BJ048756 BJ048756	C 605	18	2.9	578	17	AZ854253	AZ854253 2M0157G14
533	18	2.9	529	10	AM004552	AM004552 701932268	C 606	18	2.9	579	17	AO566663	AO566663 HS_2110_A
534	18	2.9	529	17	AZ068842	AZ068842 RPTC1-23-4	C 607	18	2.9	580	9	AL777803	AL777803 AL777803
535	18	2.9	531	10	BE664383	BE664383 148819_MA	C 608	18	2.9	580	17	AZ210140	AZ210140 1M0182E14
536	18	2.9	531	17	AZ375832	AZ375832 1M0129122	C 609	18	2.9	581	10	AV530342	AV530342 AV530342
537	18	2.9	533	17	AQ837879	AQ837879 HS_4708_A	C 610	18	2.9	583	17	AZ625613	AZ625613 1M0465F18
538	18	2.9	534	9	AL805324	AL805324 AL805324	C 611	18	2.9	585	17	AZ964323	AZ964323 2M0234A03
539	18	2.9	536	12	BF779744	BF779744 3233-86_h	C 612	18	2.9	586	17	AO987883	AO987883 RPTC1-23-3
540	18	2.9	537	17	AO509782	AO509782 nbxb0096N	C 613	18	2.9	587	12	BC511969	BC511969 BS511969
541	18	2.9	538	17	AZ863998	AZ863998 2M0173C20	C 614	18	2.9	587	17	AO056029	AO056029 CIT-HSP-2
542	18	2.9	539	17	AZ864198	AZ864198 2M0233J15	C 615	18	2.9	587	17	AZ098798	AZ098798 RPTC1-23-1
543	18	2.9	541	10	AM5642373	AM5642373 660065B08	C 616	18	2.9	588	13	BI074434	BI074434 IP1_15_D1
544	18	2.9	541	12	BF340209	BF340209 602036590	C 617	18	2.9	588	13	BM394656	BM394656 50072-2-5
545	18	2.9	541	12	AZ512253	AZ512253 1M0357X09	C 618	18	2.9	588	17	AZ339380	AZ339380 1M0070013
546	18	2.9	542	9	AL631548	AL631548 AL631548	C 619	18	2.9	589	17	AZ786645	AZ786645 2M0032G14
547	18	2.9	543	17	AQ661657	AQ661657 HS_5197_A	C 620	18	2.9	591	9	AI385738	AI385738 mE30f06.X
548	18	2.9	544	9	AL661077	AL661077 AL661077	C 621	18	2.9	591	9	AL793411	AL793411 AL793411
549	18	2.9	544	12	BG560161	BG560161 RH122_71-	C 622	18	2.9	591	12	BG411339	BG411339 EMI_20_F0
550	18	2.9	547	9	AU052912	AU052912 AU052912	C 623	18	2.9	591	17	AZ201417	AZ201417 SP_0054_A
551	18	2.9	547	17	BH538671	BH538671 BOHKESTR	C 624	18	2.9	591	17	AZ374612	AZ374612 1M0127D05
552	18	2.9	548	9	AU144546	AU144546 AU144546	C 625	18	2.9	592	13	BM245584	BM245584 K0726F06-
553	18	2.9	549	10	AV520627	AV520627 AV520627	C 626	18	2.9	593	10	AV520288	AV520288 AV520288
554	18	2.9	549	10	AM042330	AM042330 614027B08	C 627	18	2.9	593	17	AZ345171	AZ345171 1M0079P03
555	18	2.9	549	10	BE354007	BE354007 EST355350	C 628	18	2.9	596	10	AV1718718	AV1718718 AV1718718
556	18	2.9	549	14	BQ396527	BQ396527 NISC ng21	C 629	18	2.9	597	17	BH199512	BH199512 Sml-51G12
557	18	2.9	549	17	BH380631	BH380631 AG-ND-145	C 630	18	2.9	598	9	AL588548	AL588548 AL588548
558	18	2.9	550	10	AV520155	AV520155 AV520155	C 631	18	2.9	598	17	BH783398	BH783398 fZmb013f0
559	18	2.9	550	13	BM175075	BM175075 TGEESTYD1	C 632	18	2.9	599	10	AV720570	AV720570 AV720570
560	18	2.9	550	17	AQ837821	AQ837821 HS_4647_B	C 633	18	2.9	600	10	BE039346	BE039346 AC02C07_A
561	18	2.9	551	17	AZ604165	AZ604165 1M0423G21	C 634	18	2.9	600	10	BE039346	BE039346 AC02C07_A
562	18	2.9	551	17	AQ426387	AQ426387 CITBI-EI-	C 635	18	2.9	601	10	AV1719402	AV1719402 AV1719402
563	18	2.9	553	17	AZ315069	AZ315069 1M0032G11	C 636	18	2.9	601	10	BE357387	BE357387 DGI_15_B0
564	18	2.9	553	17	BH400435	BH400435 AG-ND-156	C 637	18	2.9	602	13	BI592400	BI592400 RH10070_5
565	18	2.9	554	17	BH125990	BH125990 RPTC1-24-3	C 638	18	2.9	602	17	BH036953	BH036953 RPTC1-24-3
566	18	2.9	554	17	AQ353291	AQ353291 CITBI-EI-	C 639	18	2.9	603	10	AV1718664	AV1718664 AV1718664
567	18	2.9	555	10	AV526083	AV526083 AV526083	C 640	18	2.9	605	17	AO952533	AO952533 Sheared_D
568	18	2.9	555	17	AZ119108	AZ119108 RPTC1-23-4	C 641	18	2.9	606	12	BE978795	BE978795 bE82H12_Y
569	18	2.9	555	17	AZ368056	AZ368056 1M0117N21	C 642	18	2.9	606	12	AZ734452	AZ734452 RPTC1-24-7
570	18	2.9	556	17	AZ605228	AZ605228 1M0426019	C 643	18	2.9	608	10	AM017771	AM017771 614063C05
571	18	2.9	557	9	AV242261	AV242261 AV242261	C 644	18	2.9	608	13	BU422502	BU422502 BU422502
572	18	2.9	557	9	AA605595	AA605595 30631_Iam	C 645	18	2.9	608	13	BU422502	BU422502 BU422502
573	18	2.9	557	10	AV549918	AV549918 AV549918	C 646	18	2.9	609	17	AO527524	AO527524 RPTC1-11-3
574	18	2.9	557	14	BM859653	BM859653 FY59605_X	C 647	18	2.9	609	17	BH736591	BH736591 BH736591
575	18	2.9	557	17	BH106138	BH106138 RPTC1-24-3	C 648	18	2.9	610	9	AL636914	AL636914 AL636914
576	18	2.9	558	10	AV886204	AV886204 AV886204	C 649	18	2.9	611	13	BM318287	BM318287 P11_80_G0
577	18	2.9	558	17	AZ027578	AZ027578 RPTC1-23-2	C 650	18	2.9	612	9	AL678345	AL678345 AL678345
578	18	2.9	558	17	AZ161107	AZ161107 SP_0069_A	C 651	18	2.9	612	10	AV559329	AV559329 AV559329
579	18	2.9	559	17	AZ640604	AZ640604 1M0502008	C 652	18	2.9	613	17	AZ065123	AZ065123 RPTC1-23-4
580	18	2.9	559	10	AV520018	AV520018 AV520018	C 653	18	2.9	613	9	AL675260	AL675260 AL675260
581	18	2.9	560	17	AQ734526	AQ734526 HS_3112_B	C 654	18	2.9	615	14	BO397068	BO397068 NISC ng25
582	18	2.9	560	17	AZ389165	AZ389165 1M0149K20	C 655	18	2.9	615	17	AZ659486	AZ659486 2M0165C11
583	18	2.9	560	17	AZ581967	AZ581967 1M0370M22	C 656	18	2.9	615	17	DR15N225	DR15N225 Danlo_Ter
584	18	2.9	560	17	AQ557170	AQ557170 HS_2081_A	C 657	18	2.9	616	17	AZ519683	AZ519683 RPTC1-11-2
585	18	2.9	561	9	AI5332761	AI5332761 SD04367_5	C 658	18	2.9	617	13	BU328079	BU328079 BU328079
586	18	2.9	561	17	AZ996419	AZ996419 2M0282A10	C 659	18	2.9	618	14	BO390998	BO390998 NISC mg16
587	18	2.9	562	13	BI509071	BI509071 BM170003A	C 660	18	2.9	619	9	AU038993	AU038993 AU038993
588	18	2.9	563	10	AV532423	AV532423 AV532423	C 661	18	2.9	619	17	AZ000687	AZ000687 RPTC1-23-3
589	18	2.9	563	17	AZ884794	AZ884794 RPTC1-23-1	C 662	18	2.9	620	10	BB117307	BB117307 BB117307
590	18	2.9	565	13	BU060368	BU060368 BU060368	C 663	18	2.9	621	17	BH259489	BH259489 CH230-112

C 664	18	2.9	623	10	BB381460	BB381460	737	18	2.9	676	17	BH592261	BH592261	BOGPO577R
C 665	18	2.9	627	12	BB813328	BB813328	738	18	2.9	677	9	AA759528	AA759528	vw63-c03.r
C 666	18	2.9	628	14	BBM90009	BBM90009	739	18	2.9	677	9	AA759528	AA759528	vw63-c03.r
C 667	18	2.9	629	13	BB044418	BB044418	740	18	2.9	677	17	AZ227892	AZ227892	RPCT-23-7
C 668	18	2.9	629	17	AZ284409	AZ284409	741	18	2.9	677	17	BH042745	BH042745	RPCT-24-3
C 669	18	2.9	629	17	AZ521943	AZ521943	741	18	2.9	677	17	BH153015	BH153015	Gm ISB001
C 670	18	2.9	629	17	BH711134	BH711134	742	18	2.9	678	9	A1569158	A1569158	tr83b08.x
C 671	18	2.9	630	17	AZ883070	AZ883070	743	18	2.9	679	13	BM605547	BM605547	170006870
C 672	18	2.9	631	17	CNS03FBP	CNS03FBP	744	18	2.9	679	13	BH024125	BH024125	Gm Umb001
C 673	18	2.9	631	9	AU215810	AU215810	745	18	2.9	681	17	BH246790	BH246790	BOGAT84TR
C 674	18	2.9	632	17	AZ348144	AZ348144	746	18	2.9	684	12	BG848246	BG848246	102402140
C 675	18	2.9	632	17	CNS02GK2	CNS02GK2	747	18	2.9	684	17	BH103452	BH103452	RPCT-24-3
C 676	18	2.9	633	10	AV784370	AV784370	748	18	2.9	686	17	BH378044	BH378044	AG-ND-142
C 677	18	2.9	633	10	BE283992	BE283992	749	18	2.9	687	14	CNS01ROY	CNS01ROY	Tetraodon
C 678	18	2.9	634	10	AZ315122	AZ315122	750	18	2.9	688	17	AZ643374	AZ643374	1M0506118
C 679	18	2.9	634	10	BM635061	BM635061	751	18	2.9	688	17	AZ259880	AZ259880	2M0266804
C 680	18	2.9	635	10	BM6294125	BM6294125	752	18	2.9	689	17	BH796577	BH796577	RPCT-24-2
C 681	18	2.9	636	10	BM065475	BM065475	753	18	2.9	689	17	BH796577	BH796577	RPCT-24-2
C 682	18	2.9	636	17	AU085885	AU085885	754	18	2.9	692	17	CNS02M3R	CNS02M3R	1411
C 683	18	2.9	637	9	AZ946796	AZ946796	755	18	2.9	693	17	BH759602	BH759602	KG05469.D
C 684	18	2.9	637	17	AQ379076	AQ379076	756	18	2.9	694	17	BH023629	BH023629	Gm Umb001
C 685	18	2.9	639	10	BE305517	BE305517	757	18	2.9	697	17	AZ349271	AZ349271	1M0086M12
C 686	18	2.9	640	12	BG291441	BG291441	758	18	2.9	698	9	AL660207	AL660207	602536554
C 687	18	2.9	640	13	BM244007	BM244007	759	18	2.9	698	17	BG492590	BG492590	602618102
C 688	18	2.9	642	13	BM406641	BM406641	760	18	2.9	699	12	BG619909	BG619909	MI-P-CP1
C 689	18	2.9	642	17	AZ375759	AZ375759	761	18	2.9	699	14	BG604239	BG604239	RPCT-24-2
C 690	18	2.9	643	17	AQ391429	AQ391429	762	18	2.9	701	17	BH035360	BH035360	RPCT-24-2
C 691	18	2.9	644	17	AQ000331	AQ000331	763	18	2.9	702	17	AG151271	AG151271	Pan trog1
C 692	18	2.9	644	17	AG176430	AG176430	764	18	2.9	703	17	AZ984937	AZ984937	2M0266D12
C 693	18	2.9	645	17	AZ231644	AZ231644	765	18	2.9	703	17	BH583186	BH583186	BOHMD41F
C 694	18	2.9	645	17	AZ376441	AZ376441	766	18	2.9	704	17	AZ044560	AZ044560	Gm Umb001
C 695	18	2.9	646	10	BE464347	BE464347	767	18	2.9	704	17	BH793903	BH793903	ME-MBA000
C 696	18	2.9	646	12	BG711164	BG711164	768	18	2.9	705	13	BM406564	BM406564	EST580891
C 697	18	2.9	646	17	BH648333	BH648333	769	18	2.9	705	13	AZ903230	AZ903230	RPCT-24-1
C 698	18	2.9	647	17	AG057156	AG057156	770	18	2.9	707	13	BM392894	BM392894	50071-2-3
C 699	18	2.9	648	17	AZ432776	AZ432776	771	18	2.9	707	13	BM394285	BM394285	50071-2-3
C 700	18	2.9	649	9	AL656206	AL656206	772	18	2.9	708	9	AL642898	AL642898	AL642898
C 701	18	2.9	650	9	AT745777	AT745777	773	18	2.9	711	13	B1400064	B1400064	BM400064
C 702	18	2.9	650	17	BH358993	BH358993	774	18	2.9	711	13	BM400064	BM400064	BM400064
C 703	18	2.9	651	17	BH293755	BH293755	775	18	2.9	716	13	AQ058460	AQ058460	LEPAX66TF
C 704	18	2.9	652	9	AL1132935	AL1132935	776	18	2.9	716	13	AZ197161	AZ197161	SP.1034.A
C 705	18	2.9	653	10	BB214913	BB214913	777	18	2.9	718	13	B1636092	B1636092	SI7660-5
C 706	18	2.9	653	17	AZ953015	AZ953015	778	18	2.9	719	13	BJ355806	BJ355806	RPCT-24-3
C 707	18	2.9	654	17	AG086576	AG086576	779	18	2.9	720	14	BM985960	BM985960	7-D08-73
C 708	18	2.9	655	13	BJ050337	BJ050337	780	18	2.9	723	10	AW942758	AW942758	LD27480.3
C 709	18	2.9	656	13	BJ037570	BJ037570	781	18	2.9	723	10	C23775	C23775	OGG27P09.
C 710	18	2.9	657	14	C93697	C93697	782	18	2.9	724	14	BU001481	BU001481	2M0223M15
C 711	18	2.9	658	10	BM460036	BM460036	783	18	2.9	724	17	AZ956708	AZ956708	RPCT-24-2
C 712	18	2.9	662	10	AV781585	AV781585	784	18	2.9	725	17	BH600411	BH600411	BOHLY68TF
C 713	18	2.9	662	17	BH282614	BH282614	785	18	2.9	725	17	BH600411	BH600411	BOHLY68TF
C 714	18	2.9	663	13	B1576512	B1576512	786	18	2.9	726	13	BJ344166	BJ344166	BM404166
C 715	18	2.9	663	17	AZ369254	AZ369254	787	18	2.9	727	17	AZ981882	AZ981882	2M0262A02
C 716	18	2.9	663	17	AZ829028	AZ829028	788	18	2.9	727	17	BH119875	BH119875	RPCT-24-3
C 717	18	2.9	664	10	AV823411	AV823411	789	18	2.9	728	17	AZ985442	AZ985442	2M0267K14
C 718	18	2.9	664	17	AG061869	AG061869	790	18	2.9	728	17	AL603316	AL603316	DKF2P686L
C 719	18	2.9	665	14	AM679674	AM679674	791	18	2.9	732	9	AL603316	AL603316	DKF2P686L
C 720	18	2.9	665	10	C90858	C90858	792	18	2.9	732	9	AL603316	AL603316	DKF2P686L
C 721	18	2.9	666	10	BB017594	BB017594	793	18	2.9	733	13	BH199433	BH199433	SM1-6C15
C 722	18	2.9	666	10	BE533237	BE533237	794	18	2.9	733	13	BH199433	BH199433	SM1-6C15
C 723	18	2.9	667	14	BP008887	BP008887	795	18	2.9	737	9	AU005851	AU005851	EST55321
C 724	18	2.9	667	14	BQ258409	BQ258409	796	18	2.9	737	13	BM162798	BM162798	EST55321
C 725	18	2.9	667	14	C93317	C93317	797	18	2.9	742	17	BH057312	BH057312	602396418
C 726	18	2.9	668	17	BH261274	BH261274	798	18	2.9	746	17	BH528792	BH528792	RPCT-24-3
C 727	18	2.9	669	9	AL639827	AL639827	799	18	2.9	747	17	AG120942	AG120942	BOHBD06TF
C 728	18	2.9	669	12	BF166465	BF166465	800	18	2.9	748	17	BG599101	BG599101	Pan trog1
C 729	18	2.9	670	12	BF941149	BF941149	801	18	2.9	751	14	BM985788	BM985788	EST504001
C 730	18	2.9	670	13	BJ339836	BJ339836	802	18	2.9	751	17	BH692222	BH692222	5.A05.T3
C 731	18	2.9	672	17	AZ805087	AZ805087	803	18	2.9	753	17	AQ326955	AQ326955	nbx00139F
C 732	18	2.9	672	17	AQ056725	AQ056725	804	18	2.9	753	17	AQ326955	AQ326955	nbx00139F
C 733	18	2.9	673	17	AQ057255	AQ057255	805	18	2.9	755	17	BH075174	BH075174	RPCT-24-2
C 734	18	2.9	673	17	AZ853705	AZ853705	806	18	2.9	756	17	AQ738875	AQ738875	HS-5382.B
C 735	18	2.9	674	10	BE548839	BE548839	807	18	2.9	759	17	BH728582	BH728582	BOMEB85TR
C 736	18	2.9	676	10	BE539734	BE539734	808	18	2.9	760	17	AZ810372	AZ810372	2M0074B21
							809	18	2.9	761	13	B1523871	B1523871	603051607

C 810	18	2.9	752	12	BG483748	BG483748	602503386	C 883	18	2.9	933	12	BF974859	BF974859	602245520
811	18	2.9	765	13	BJ350965	BJ350965	B0350965	C 884	18	2.9	936	13	BF209545	BF209545	601877229
812	18	2.9	766	10	BE257186	BE257186	601109548	885	18	2.9	936	12	BF141004	BF141004	602962867
813	18	2.9	768	13	BJ401703	BJ401703	B0401703	886	18	2.9	937	17	AO899387	AO899387	HS 5263 B
814	18	2.9	770	17	BH520677	BH520677	B0GVE56TF	887	18	2.9	938	17	BH152558	BH152558	ENTPK29TR
C 815	18	2.9	772	12	BG720248	BG720248	602692308	888	18	2.9	939	17	BH131777	BH131777	ENTOC08TR
816	18	2.9	772	17	AO780464	AO780464	HS_3117_B	889	18	2.9	946	12	BG211460	BG211460	RST31026
817	18	2.9	772	17	BH543001	BH543001	B0GKU79TF	890	18	2.9	949	17	BH132463	BH132463	ENTOF37TF
818	18	2.9	775	10	BE532740	BE532740	601234379	891	18	2.9	957	12	BF577530	BF577530	602092387
819	18	2.9	779	13	BJ436705	BJ436705	B0436705	C 892	18	2.9	961	12	BE782528	BE782528	601465821
820	18	2.9	786	13	BJ350002	BJ350002	B0350002	C 893	18	2.9	964	14	BQ932239	BQ932239	AGENC08TR
821	18	2.9	786	17	AZ186079	AZ186079	SP_1006_A	C 894	18	2.9	970	12	BG297018	BG297018	602394870
C 822	18	2.9	788	14	BQ443632	BQ443632	UT-M-EMO-A	C 895	18	2.9	971	17	AZ688581	AZ688581	ENTK285TF
C 823	18	2.9	790	14	BM985576	BM985576	1_G01_T3	C 896	18	2.9	971	17	CNS05D04	CNS05D04	TEtraodon
824	18	2.9	791	17	BH550726	BH550726	B0GPM96TF	C 897	18	2.9	992	17	CNS04E8L	CNS04E8L	TEtraodon
825	18	2.9	792	17	BH036285	BH036285	RPCI-24-3	C 898	18	2.9	993	17	AL267365	AL267365	TEtraodon
C 826	18	2.9	796	17	AZ944840	AZ944840	2M0256E06	C 899	18	2.9	1003	17	AZ677615	AZ677615	TEtraodon
C 827	18	2.9	797	17	BH435733	BH435733	B0GKX59TF	C 900	18	2.9	1008	17	AZ683178	AZ683178	ENTTF69TR
C 828	18	2.9	800	14	C90928	C90928	D1Ct	C 901	18	2.9	1010	17	CNS01635	CNS01635	TEtraodon
C 829	18	2.9	806	17	BH091792	BH091792	RPCI-24-3	C 902	18	2.9	1015	17	CNS04464	CNS04464	TEtraodon
C 830	18	2.9	807	17	BH120385	BH120385	RPCI-24-2	C 903	18	2.9	1021	17	CNS06HFT	CNS06HFT	TEtraodon
C 831	18	2.9	808	17	CNS02MCG	CNS02MCG	AL217321	C 904	18	2.9	1031	13	BI873040	BI873040	603397823
C 832	18	2.9	809	12	BF131381	BF131381	601818887	C 905	18	2.9	1031	17	CNS05RGO	CNS05RGO	TEtraodon
C 833	18	2.9	810	17	BH493475	BH493475	BOHAK13TR	C 906	18	2.9	1049	13	BI105165	BI105165	TEtraodon
834	18	2.9	810	17	BH592232	BH592232	BOHEB54TF	C 907	18	2.9	1051	17	AG126836	AG126836	Pan trog1
C 835	18	2.9	811	17	AZ906735	AZ906735	RPCI-24-1	C 908	18	2.9	1054	17	AG131374	AG131374	Pan trog1
C 836	18	2.9	822	17	AO250387	AO250387	T3O23-Sp6	C 909	18	2.9	1055	13	BI523070	BI523070	603175604
C 837	18	2.9	823	13	BI092122	BI092122	602856843	C 910	18	2.9	1072	17	CNS0582L	CNS0582L	TEtraodon
C 838	18	2.9	823	17	AG131026	AG131026	Pan trog1	C 911	18	2.9	1077	17	AG177533	AG177533	Pan trog1
C 839	18	2.9	824	12	BE961779	BE961779	601648070	C 912	18	2.9	1096	17	CNS04ET3	CNS04ET3	TEtraodon
C 840	18	2.9	829	10	BE469129	BE469129	1PDHK0109	C 913	18	2.9	1098	13	BI754663	BI754663	603025352
C 841	18	2.9	835	12	BF134133	BF134133	601778808	C 914	18	2.9	1101	17	CNS00179	CNS00179	TEtraodon
C 842	18	2.9	841	17	AZ532539	AZ532539	ENTCN65TF	C 915	18	2.9	1101	17	CNS00E0C	CNS00E0C	TEtraodon
C 843	18	2.9	843	17	BH531071	BH531071	B0GZC96TF	C 916	18	2.9	1102	12	BG341670	BG341670	602463389
C 844	18	2.9	849	12	BG570779	BG570779	602591903	C 917	18	2.9	1109	14	W29456	W29456	mc03e02_x1
845	18	2.9	849	17	BH139766	BH139766	CH230-182	C 918	18	2.9	1147	12	BG469474	BG469474	602352978
846	18	2.9	850	17	BH147741	BH147741	ENTPD16TF	C 919	18	2.9	1154	17	AG072954	AG072954	Pan trog1
C 847	18	2.9	851	17	BH497518	BH497518	BOG0H24TR	C 920	18	2.9	1161	12	BF037880	BF037880	601461414
C 848	18	2.9	856	12	BF346840	BF346840	602021644	C 921	18	2.9	1163	12	BG846850	BG846850	102401580
C 849	18	2.9	860	17	AZ527880	AZ527880	ENTB061TF	C 922	18	2.9	1178	14	BQ926454	BQ926454	AGENC08TR
C 850	18	2.9	863	17	BH204645	BH204645	SML-61E6	C 923	18	2.9	1196	17	AG030482	AG030482	Pan trog1
851	18	2.9	867	17	AZ675876	AZ675876	ENTEX27TR	C 924	18	2.9	1199	12	BF984429	BF984429	602307662
C 852	18	2.9	869	17	AO740225	AO740225	HS_5505_A	C 925	18	2.9	1262	12	BG714207	BG714207	602673973
C 853	18	2.9	870	17	AZ674402	AZ674402	ENTKH68TR	C 926	18	2.9	1265	12	BG114770	BG114770	602315586
C 854	18	2.9	873	13	CNS058D1	CNS058D1	BI521433	C 927	18	2.9	1304	17	AG117277	AG117277	Pan trog1
C 855	18	2.9	876	17	AZ684519	AZ684519	ENTLPI6TF	C 928	18	2.9	1310	12	BF339043	BF339043	602034834
856	18	2.9	884	17	AZ685604	AZ685604	ENTMW63TR	C 929	18	2.9	1371	12	BG166013	BG166013	602345955
857	18	2.9	885	17	AZ669707	AZ669707	ENTHM58TF	C 930	18	2.9	1389	12	BF344014	BF344014	602016821
C 858	18	2.9	885	17	CNS05QX2	CNS05QX2	AL349823	C 931	18	2.9	1458	12	BG250581	BG250581	602362760
C 859	18	2.9	887	10	BE612436	BE612436	601451812	C 932	18	2.9	1519	12	BG849342	BG849342	1024024H1
C 860	18	2.9	887	14	BM815985	BM815985	HS108H03	C 933	18	2.9	1520	12	BE962333	BE962333	601655593
C 861	18	2.9	888	17	AO896047	AO896047	HS_5439_A	C 934	18	2.9	1542	12	BE967239	BE967239	601660672
C 862	18	2.9	893	17	AZ550804	AZ550804	ENTDT93TF	C 935	18	2.9	1546	12	BF128339	BF128339	601810176
C 863	18	2.9	894	12	BE878974	BE878974	601492678	C 936	18	2.9	1692	11	AY107259	AY107259	Zea mays
C 864	18	2.9	894	17	BH150082	BH150082	ENTPC65TR	C 937	18	2.9	1696	11	AK011921	AK011921	Mus muscu
C 865	18	2.9	896	17	AZ686238	AZ686238	ENTVI70TF	C 938	18	2.9	2177	12	BF121985	BF121985	601756327
C 866	18	2.9	898	17	AZ541065	AZ541065	ENTDB02TR	C 939	17	2.8	82	14	D19076	D19076	MUSG001283
C 867	18	2.9	899	10	BE538500	BE538500	601068151	C 940	17	2.8	95	9	AA965879	AA965879	oBf0281_x
C 868	18	2.9	902	17	CNS02EXY	CNS02EXY	AL194407	C 941	17	2.8	100	13	BJ378712	BJ378712	TEtraodon
C 869	18	2.9	903	9	AU090914	AU090914	AU090914	C 942	17	2.8	102	13	BJ341438	BJ341438	TEtraodon
C 870	18	2.9	905	17	BH136344	BH136344	ENTMY95TF	C 943	17	2.8	103	9	A1964540	A1964540	946013D10
C 871	18	2.9	905	17	BH155289	BH155289	ENTRM12TF	C 944	17	2.8	103	13	BJ362979	BJ362979	60362979
C 872	18	2.9	907	17	CNS04R19	CNS04R19	AL303318	C 945	17	2.8	106	12	BG004751	BG004751	MR3-CN018
C 873	18	2.9	908	9	AL526394	AL526394	AL526394	C 946	17	2.8	109	13	BJ397263	BJ397263	60379263
C 874	18	2.9	908	10	AV752958	AV752958	AV752958	C 947	17	2.8	110	9	AA627301	AA627301	ng68H01_8
C 875	18	2.9	909	17	CNS03301	CNS03301	TEtraodon	C 948	17	2.8	113	9	AU266052	AU266052	AU266052
C 876	18	2.9	912	17	AZ681449	AZ681449	ENTKQ33TR	C 949	17	2.8	125	17	AU269865	AU269865	1474m3_gm
C 877	18	2.9	912	17	AZ687062	AZ687062	ENTLDP73TR	C 950	17	2.8	127	9	AU269865	AU269865	602962867
C 878	18	2.9	916	17	CNS02293	CNS02293	TEtraodon	C 951	17	2.8	128	13	BJ331671	BJ331671	60331671
C 879	18	2.9	920	17	AZ689579	AZ689579	ENTH048TR	C 952	17	2.8	132	9	AV073120	AV073120	60334529
C 880	18	2.9	929	12	BG122416	BG122416	602353307	C 953	17	2.8	132	13	BJ334529	BJ334529	60334529
C 881	18	2.9	929	14	BQ936098	BQ936098	AGENC08TR	C 954	17	2.8	138	9	AU259567	AU259567	60259567
C 882	18	2.9	929	14	BQ936098	BQ936098	AGENC08TR	C 955	17	2.8	139	13	BJ338712	BJ338712	60338712



REFERENCE  
1 (bases 1 to 447)  
AUTHORS  
TITLE  
Rice cDNA from panicle at flowering stage (2001)  
JOURNAL  
COMMENT  
National Institute of Agrobiological Resources  
Rice Genome Research Program, Kannondai 2-1-2, Tsukuba, Ibaraki  
305-8602, Japan  
Tel: 81-298-38-7441  
Fax: 81-298-38-7468  
Email: tsaekia@abrr.affrc.go.jp, URL: http://rgp.dna.affrc.go.jp/  
PROJECT = 'RGF'

FEATURES  
source  
1..447  
/organism="Oryza sativa (japonica cultivar-group)"  
/cultivar="Nipponbare"  
/db\_xref="taxon:39947"  
/clone\_lib="E3226"  
/clone\_lib="Rice panicle at flowering stage"  
/dev\_stage="flowering stage"  
/note="Organ: panicle; Rice cDNA from panicle at flowering stage"

BASE COUNT  
105 a 116 c 132 g 94 t

Query Match  
Best local Similarity 100.0%; Pred. No. 5.8e-09;  
Matches 39; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 576 AGTTTGTGAGGGATTGAGACACTGTGGTGGCA 614  
Db 154 AGTTTGTGAGGGATTGAGACACTGTGGTGGCA 192

RESULT 3  
BH219271/c 153 bp DNA linear GSS 08-NOV-2001  
LOCUS  
DEFINITION  
1006085F05.x1 1006 - Rescuemu Grid G Zea mays genomic, DNA  
sequence.  
ACCESSION  
BH219271 GI:16813113  
VERSION  
BH219271.1  
KEYWORDS  
GSS.  
SOURCE  
Zea mays.  
ORGANISM  
Zea mays.  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACC  
clade; Panicoideae; Andropogoneae; Zea.  
1 (bases 1 to 153)

REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT  
Unpublished (2001)  
Contact: Walbot V  
Department of Biological Sciences  
Stanford University  
855 California Ave, Palo Alto, CA 94304, USA  
Tel: 650 723 2227  
Fax: 650 725 8221  
Email: walbot@stanford.edu  
Possible ligation site so sequence was trimmed. Post-ligation  
sequence submitted separately.  
Plate: 1006085 row: 20  
Class: transposon-tagged.  
Location/Qualifiers

FEATURES  
source  
1..153  
/organism="Zea mays"  
/cultivar="mixed background W23/A188/B73"  
/db\_xref="taxon:4577"  
/clone\_lib="1006 - Rescuemu Grid G"  
/issue\_type="leaf"  
/dev\_stage="adult"  
/lab\_host="DH10B"  
/note="Organ: leaf; Vector: Rescuemu (engineered from

ampliclinn."

pluescript backbone); Site 1: BamH1; Site 2: BglII;  
Rescuemu is a 4.9 kb, modified maize Mu transposon  
designed to allow plasmid rescue from total genomic DNA.  
Mu elements insert preferentially into transcription  
units. For more information on Rescuemu, go to the web  
site 'www.zmndb.iastate.edu' and follow the links for  
'Rescuemu.' Grid G was grown at Stanford in 2000. DNA was  
extracted from leaf punches, double digested using BamH1  
and BglII, and ligated to form circular plasmids. DH10B  
cells were transformed and then screened on LB plates with  
ampicillin."

BASE COUNT  
30 a 28 c 75 g 20 t  
Query Match  
Best local Similarity 100.0%; Pred. No. 0.085;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 15 GCGCCCCAAGTTGATCCGCAAGT 39  
Db 74 GCGCCCCAAGTTGATCCGCAAGT 50

RESULT 4  
AZ919173/c 401 bp DNA linear GSS 17-DEC-2001  
LOCUS  
DEFINITION  
1006014C02.2EL\_x1 1006 - Rescuemu Grid G Zea mays genomic, DNA  
sequence.  
ACCESSION  
AZ919173 GI:13388594  
VERSION  
AZ919173.1  
KEYWORDS  
GSS.  
SOURCE  
Zea mays.  
ORGANISM  
Zea mays.  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACC  
clade; Panicoideae; Andropogoneae; Zea.  
1 (bases 1 to 401)

REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT  
Unpublished (2001)  
Contact: Walbot V  
Department of Biological Sciences  
Stanford University  
855 California Ave, Palo Alto, CA 94304, USA  
Tel: 650 723 2227  
Fax: 650 725 8221  
Email: walbot@stanford.edu  
Possible ligation site of ends cut by 2 different endonucleases.  
Reverse complemented post-ligation sequence from source sequence.  
Plate: 1006014 row: 39  
Class: transposon-tagged.  
Location/Qualifiers

FEATURES  
source  
1..401  
/organism="Zea mays"  
/cultivar="mixed background W23/A188/B73"  
/db\_xref="taxon:4577"  
/clone\_lib="1006 - Rescuemu Grid G"  
/issue\_type="leaf"  
/dev\_stage="adult"  
/lab\_host="DH10B"  
/note="Organ: leaf; Vector: Rescuemu (engineered from  
pbluescript backbone); Site 1: BamH1; Site 2: BglII;  
Rescuemu is a 4.9 kb, modified maize Mu transposon  
designed to allow plasmid rescue from total genomic DNA.  
Mu elements insert preferentially into transcription  
units. For more information on Rescuemu, go to the web  
site 'www.zmndb.iastate.edu' and follow the links for  
'Rescuemu.' Grid G was grown at Stanford in 2000. DNA was  
extracted from leaf punches, double digested using BamH1  
and BglII, and ligated to form circular plasmids. DH10B  
cells were transformed and then screened on LB plates with  
ampicillin."

BASE COUNT  
105 a 75 c 144 g 77 t

## ORIGIN

Query Match 4.1%; Score 25; DB 17; Length 401;  
 Best Local Similarity 100.0%; Pred. No. 0.097;  
 Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 15 GCGCCCAAGTTCATCCGCAAGT 39  
 Db 324 GCGCCCAAGTTCATCCGCAAGT 300

RESULT 5 BE500616 211 bp mRNA linear EST 04-AUG-2000

LOCUS WHE0987-0990 L19 L19S2 wheat pre-anthesis spike cDNA library  
 DEFINITION Triticum aestivum cDNA clone WHE0987-0990\_L19\_L19, mRNA sequence.

ACCESSION BE500616  
 VERSION BE500616.1 GI:9699233  
 KEYWORDS EST.  
 SOURCE bread wheat.  
 ORGANISM Triticum aestivum  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae

REFERENCE  
 AUTHORS Anderson, O.D., Chao, S., Choi, D.W., Close, T.J., Fenton, R.D., Han  
 'P.S., Heia, C.C., Kang, Y., Lazo, G.R., Miller, R., Rausch, C.J.,  
 Seaton, C.L. and Tong, J.C.  
 The structure and function of the expressed portion of the wheat  
 genomes - Pre-anthesis spike cDNA library  
 Unpublished (2000)

JOURNAL  
 COMMENT Contact: Olin Anderson  
 US Department of Agriculture, Agriculture Research Service, Pacific  
 West Area, Western Regional Research Center  
 800 Buchanan Street, Albany, CA 94710, USA  
 Tel: 5105595773  
 Fax: 5105595818  
 Email: oanderson@pw.usda.gov  
 Sequence have been trimmed to remove vector sequence and low  
 quality sequence with piped score less than 20  
 Seq primer: Stratagene SK primer.  
 Location/Qualifiers

## FEATURES

source

1. .211  
 /organism="Triticum aestivum"  
 /cultivar="Chinese Spring"  
 /db\_xref="taxon:4565"  
 /clone="WHE0987-0990\_L19\_L19"  
 /clone\_1b="wheat pre-anthesis spike cDNA library"  
 /tissue\_type="Spike before anthesis"  
 /dev\_stage="Adult plant"  
 /lab\_host="E. coli SOUR"  
 /note="Vector: Lambda Uni-ZAP XR, excised phagemid;  
 Site 1: EcoRI, Site 2: XhoI; plates were grown in the  
 greenhouse. Whole spike with awns trimmed, white, green  
 and yellow anther were collected and total RNA, and  
 poly(A) RNA were prepared, a cDNA library was made, and  
 the cDNA clones were in vivo excised to give plus-script  
 phagemids in the T7 Close lab (Choi, Close, Fenton) at  
 the University of California, Riverside. Plasmid DNA  
 preparations and DNA sequencing were performed in the OD  
 Anderson lab (all other authors)."

BASE COUNT 28 a 71 c 66 g 46 t

ORIGIN

Query Match 3.7%; Score 23; DB 10; Length 211;  
 Best Local Similarity 100.0%; Pred. No. 0.96;  
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 15 GCGCCCAAGTTCATCCGCAAG 37  
 Db 178 GCGCCCAAGTTCATCCGCAAG 200

RESULT 6 AV922849 446 bp mRNA linear EST 18-JAN-2002  
 LOCUS AV922849 K Sato unpublished cDNA library, cv. Haruna Nijo second  
 leaf stage seedling leaves Hordeum vulgare subsp. vulgare cDNA  
 clone basd2j19 5', mRNA sequence.

ACCESSION AV922849.1 GI:18218628

KEYWORDS EST.  
 SOURCE Hordeum vulgare subsp. vulgare.  
 ORGANISM Hordeum vulgare subsp. vulgare  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae

REFERENCE  
 AUTHORS Sato, K., Saitoh, D. and Takeda, K.  
 TITLE Barley EST sequencing project in NIG and Okayama Univ  
 JOURNAL Unpublished (2002)  
 COMMENT Contact: Tadasu Shin-i  
 Center For Genetic Resource Information  
 National Institute of Genetics  
 111 Yata, Mishima, Shizuoka 411-8540, Japan  
 Tel: 81-559-81-6856  
 Fax: 81-559-81-6855  
 Email: tshin@genes.nig.ac.jp.  
 Location/Qualifiers

FEATURES  
 source 1. .446  
 /organism="Hordeum vulgare subsp. vulgare"  
 /cultivar="Haruna Nijo"  
 /db\_xref="taxon:112509"  
 /clone="basd2j19"  
 /clone\_1b="K. Sato unpublished cDNA library, cv. Haruna  
 Nijo second leaf stage seedling leaves"  
 /tissue\_type="seedling leaves"  
 /dev\_stage="second leaf stage"  
 Location/Qualifiers

BASE COUNT 73 a 146 c 126 g 101 t

Query Match 3.7%; Score 23; DB 10; Length 446;  
 Best Local Similarity 100.0%; Pred. No. 1.1;  
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 15 GCGCCCAAGTTCATCCGCAAG 37  
 Db 211 GCGCCCAAGTTCATCCGCAAG 233

RESULT 7

LOCUS AV466643

480 bp mRNA linear EST 24-MAY-2002  
 AV466643 S00008 Hordeum vulgare cDNA clone S0000800211A09FL, mRNA  
 sequence.

ACCESSION AV466643.1 GI:21182599

KEYWORDS EST.  
 SOURCE Hordeum vulgare.  
 ORGANISM Hordeum vulgare  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae

REFERENCE  
 AUTHORS Saren, A.-M., Tanskanen, J., Paulin, L. and Schulman, A.H.  
 TITLE Barley EST's  
 JOURNAL Unpublished (2002)  
 COMMENT Contact: Schulman AH  
 Institute of Biotechnology  
 University of Helsinki  
 P.O. Box 56 (Viikinkaari 6A), University of Helsinki FIN-00014,  
 Finland.  
 Location/Qualifiers

FEATURES  
 source 1. .480  
 /organism="Hordeum vulgare"  
 /db\_xref="taxon:4513"



BASE COUNT 85 a 145 c 145 g 105 t  
 ORIGIN /clone="S0000800211A09F1"  
 /clone\_lib="S00008"  
 /tissue\_type="Callus"  
 /note="Callus K19"

Query Match 3.7%; Score 23; DB 9; Length 480;  
 Best Local Similarity 100.0%; Pred. No. 1.1;  
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 15 GCGCCCCCAAGTTCATCCGCAAG 37  
 Db 175 GCGCCCCCAAGTTCATCCGCAAG 197

RESULT 8  
 LOCUS B1777193 505 bp mRNA linear EST 23-JUL-2002  
 DEFINITION EBr003\_S0002\_F16\_R root, 3 week, waterlogged, cv Optic, EBr003  
 Hordeum vulgare cDNA clone EBr003\_S0002\_F16 5', mRNA sequence.  
 ACCESSION B1777193  
 VERSION B1777193.2 GI:219468326  
 KEYWORDS EST.  
 SOURCE Hordeum vulgare.  
 ORGANISM Hordeum vulgare.  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;  
 Triticeae; Hordeum.  
 1 (bases 1 to 505)  
 Hedley, P., Liu, H., Caldwell, D., McCallum, N., Mudie, S., Cardle, L.,  
 Ramsay, L., Machray, G., Marshall, D.F.M. and Maugh, R.  
 Development of Barley Transcriptome Resources  
 Unpublished (2001)  
 On Sep 26, 2001 this sequence version replaced gi:15780085.  
 Contact: Maugh R, Marshall DF  
 Genome Dynamics/Computational Biology  
 Scottish Crop Research Institute  
 Invergowrie, Dundee, DD2 5DA, Scotland, UK  
 Tel: 00 44 1382 562731  
 Fax: 00 44 1382 562426  
 Email: est@scri.sari.ac.uk  
 All sequence has a Phred quality score of 20 or over  
 Seq primer: M13 reverse.  
 location/Qualifiers

FEATURES  
 source 1..505  
 /organism="Hordeum vulgare"  
 /cultivar="Optic"  
 /db\_xref="taxon:4513"  
 /clone="EBr003\_S0002\_F16"  
 /clone\_lib="root, 3 week, waterlogged, cv Optic, EBr003"  
 /tissue\_type="root"  
 /dev\_stage="3 week"  
 /lab\_host="DH10B"  
 /note="Vector: pSPORT1; Site 1: Sal I; Site 2: Not I;  
 Non-normalised library, directionally cloned into pSPORT1.  
 Derived from roots of 3 week old waterlogged barley  
 plants. Developed as part of the barley transcriptome  
 resources of BBSRC/SEERAD funded cereal IGF (Investigating  
 Gene Function) Project."  
 Gene Function Project." 147 c 157 g 109 t

BASE COUNT 92 a 147 c 157 g 109 t  
 ORIGIN

Query Match 3.7%; Score 23; DB 13; Length 505;  
 Best Local Similarity 100.0%; Pred. No. 1.1;  
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 GCGCCCCCAAGTTCATCCGCAAG 37  
 Db 171 GCGCCCCCAAGTTCATCCGCAAG 193

RESULT 9

AV926845 553 bp mRNA linear EST 18-JAN-2002  
 LOCUS AV926845 K. Sato unpublished cDNA library, cv. Haruna Nijo second  
 DEFINITION leaf stage seedling leaves Hordeum vulgare subsp. vulgare cDNA  
 clone basd23p19 5', mRNA sequence.

AV926845  
 AV926845.1 GI:18222642  
 VERSION EST.  
 KEYWORDS Hordeum vulgare subsp. vulgare.  
 SOURCE Hordeum vulgare subsp. vulgare.  
 ORGANISM Hordeum vulgare subsp. vulgare.  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;  
 Triticeae; Hordeum.  
 1 (bases 1 to 553)  
 Sato, K., Saitoh, D. and Takeda, K.  
 Barley EST sequencing project in NIG and Okayama Univ  
 Unpublished (2002)  
 Contact: Tadao Shin-i  
 Center For Genetic Resource Information  
 National Institute of Genetics  
 111 Yata, Mishima, Shizuoka 411-8540, Japan  
 Tel: 81-559-81-6856  
 Fax: 81-559-81-6855  
 Email: tshini@genes.nig.ac.jp.  
 location/Qualifiers

REFERENCE Sato, K., Saitoh, D. and Takeda, K.  
 Barley EST sequencing project in NIG and Okayama Univ  
 Unpublished (2002)  
 CONTACT: Tadao Shin-i  
 Center For Genetic Resource Information  
 National Institute of Genetics  
 111 Yata, Mishima, Shizuoka 411-8540, Japan  
 Tel: 81-559-81-6856  
 Fax: 81-559-81-6855  
 Email: tshini@genes.nig.ac.jp.  
 location/Qualifiers

FEATURES  
 source 1..553  
 /organism="Hordeum vulgare subsp. vulgare"  
 /cultivar="Haruna Nijo"  
 /db\_xref="taxon:112509"  
 /clone="basd23p19"  
 /clone\_lib="K. Sato unpublished cDNA library, cv. Haruna  
 Nijo second leaf stage seedling leaves"  
 /tissue\_type="seedling leaves"  
 /dev\_stage="second leaf stage"

BASE COUNT 102 a 159 c 169 g 123 t  
 ORIGIN

Query Match 3.7%; Score 23; DB 10; Length 553;  
 Best Local Similarity 100.0%; Pred. No. 1.1;  
 Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 GCGCCCCCAAGTTCATCCGCAAG 37  
 Db 179 GCGCCCCCAAGTTCATCCGCAAG 201

RESULT 10  
 LOCUS BF277692 559 bp mRNA linear EST 07-MAR-2001  
 DEFINITION GA\_Eb0031E13f Gossypium arboreum 7-10 dpa fiber library Gossypium  
 arboreum cDNA clone GA\_Eb0031E13f, mRNA sequence.  
 ACCESSION BF277692  
 VERSION BF277692.1 GI:11208762  
 KEYWORDS EST.  
 SOURCE Gossypium arboreum.  
 ORGANISM Gossypium arboreum.  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;  
 Rosidae; eustosids II; Malvales; Malvaceae; Gossypium.  
 1 (bases 1 to 559)  
 Wang, R.A., Fritsch, D., Yu, Y., Main, D., Rambo, T., Simmons, J., Henry  
 D., Wood, T.C., Leslie, A. and Wilkins, T.A.  
 An integrated analysis of the genetics, development, and evolution  
 of the cotton fiber  
 Unpublished (2000)  
 Contact: Wang RA  
 Clemson University Genomics Institute  
 Clemson University  
 100 Jordan Hall, Clemson, SC 29634, USA  
 Tel: 864 656 7268  
 Fax: 864 656 4293  
 Email: rtwing@clemson.edu  
 Seq primer: TATATGACTACTATATAGG

REFERENCE Wang, R.A., Fritsch, D., Yu, Y., Main, D., Rambo, T., Simmons, J., Henry  
 D., Wood, T.C., Leslie, A. and Wilkins, T.A.  
 An integrated analysis of the genetics, development, and evolution  
 of the cotton fiber  
 Unpublished (2000)  
 CONTACT: Wang RA  
 Clemson University Genomics Institute  
 Clemson University  
 100 Jordan Hall, Clemson, SC 29634, USA  
 Tel: 864 656 7268  
 Fax: 864 656 4293  
 Email: rtwing@clemson.edu  
 Seq primer: TATATGACTACTATATAGG

BASE COUNT 102 a 159 c 169 g 123 t  
 ORIGIN

High quality sequence start: 4  
High quality sequence stop: 557.  
Location/Qualifiers  
1. 559  
/organism="Gossypium arboreum"  
/strain="AKA"  
/cultivar="8400"  
/db\_xref="taxon:29729"  
/clone="GA\_Eb0031E13f"  
/clone\_1db="Gossypium arboreum 7-10 dpa fiber library"  
/tissue\_type="Fibers isolated from bolls harvested 7-10 dpa"  
/lab\_host="E. coli"  
/note="Vector: pBK-CMV; Site\_1: EcoRI; Site\_2: XhoI"

BASE COUNT 104 a 166 c 172 g 117 t

Query Match 3.7%; Score 23; DB 12; Length 559;  
Best Local Similarity 100.0%; Pred. No. 1.1;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 15 GCGCCCCCAAGTTCATCCGCAAG 37  
|||||  
Db 246 GCGCCCCCAAGTTCATCCGCAAG 268  
|||||

RESULT 11  
BU210608 581 bp mRNA linear EST 04-APR-2002  
LOCUS BU210608 Y. Ogihara unpublished cDNA library, Wh Triticum aestivum  
DEFINITION cDNA clone wh28m18 5', mRNA sequence.  
ACCESSION BU210608  
VERSION BU210608.1 GI:19949310  
KEYWORDS EST.  
SOURCE bread wheat.  
ORGANISM Triticum aestivum  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae  
; Triticeae; Triticum.  
1 (bases 1 to 581)  
Ogihara, Y. and Murai, K.  
Expressed genes in Triticum aestivum  
Unpublished (2002)  
Contact: Tadasu Shin-i  
Center For Genetic Resource Information  
National Institute of Genetics  
1111 Yata, Mishima, Shizuoka 411-8540, Japan  
Tel: 81-559-81-6856  
Fax: 81-559-81-6855  
Email: tshin@genes.nig.ac.jp.  
Location/Qualifiers  
1. 581  
/organism="Triticum aestivum"  
/cultivar="Chinese Spring"  
/db\_xref="taxon:4565"  
/clone="wh28m18"  
/clone\_1db="Y. Ogihara unpublished cDNA library, Wh"  
/tissue\_type="spike at meiosis"  
/dev\_stage="Feekes' scale 9"  
/note="Vector: Lambda Uni-ZAP XR, excised phagemid;  
Site 1: EcoRI; Site 2: XhoI; plants were grown under 12  
hydropnic conditions at UC Davis, salt stressed (Akhunov  
hours, and for 7 days, then dissected and frozen (Akhunov  
in U. Dvorak Lab). Total RNA was prepared from sheath  
tissue, equal quantities of RNA were pooled from the two  
samples, polyA was purified from the pooled RNA, a cDNA  
library was made, and the cDNA clones were in 10 Close 1db  
excised to give plasmid phagemids in the 10 Close 1db  
at the University of California, Riverside (Akhunov, Chin  
, Choi, Close, Fenton, Klianian, Otto, Simons, Zhang).  
Plasmid DNA preparations and DNA sequencing were  
performed in the OD Anderson lab (all other authors)."

BASE COUNT 114 a 162 c 186 g 119 t

ORIGIN  
Query Match 3.7%; Score 23; DB 13; Length 581;  
Best Local Similarity 100.0%; Pred. No. 1.1;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 15 GCGCCCCCAAGTTCATCCGCAAG 37  
|||||  
Db 202 GCGCCCCCAAGTTCATCCGCAAG 224  
|||||

RESULT 12  
AV924875 597 bp mRNA linear EST 18-JAN-2002  
LOCUS AV924875 K. Sato unpublished cDNA library, cv. Haruna Nijo second  
DEFINITION leaf stage seedling leaves Hordeum vulgare subsp. vulgare cDNA  
clone baad17e17 5', mRNA sequence.  
ACCESSION AV924875  
VERSION AV924875.1 GI:18220654  
KEYWORDS EST.  
SOURCE Hordeum vulgare subsp. vulgare.  
ORGANISM Hordeum vulgare subsp. vulgare  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae  
; Triticeae; Hordeum.  
1 (bases 1 to 597)  
Sato, K., Saitoh, D. and Takeda, K.  
Unpublished (2002)  
Contact: Tadasu Shin-i  
Center For Genetic Resource Information  
National Institute of Genetics  
1111 Yata, Mishima, Shizuoka 411-8540, Japan  
Tel: 81-559-81-6856  
Fax: 81-559-81-6855  
Email: tshin@genes.nig.ac.jp.  
Location/Qualifiers  
1. 597  
/organism="Hordeum vulgare subsp. vulgare"  
/cultivar="Haruna Nijo"  
/db\_xref="taxon:112509"  
/clone="baad17e17"  
/clone\_1db="K. Sato unpublished cDNA library, cv. Haruna  
Nijo second leaf stage seedling leaves"  
/tissue\_type="seedling leaves"  
/dev\_stage="second leaf stage"

BASE COUNT 113 a 166 c 186 g 130 t 2 others

FEATURES  
source

Query Match 3.7%; Score 23; DB 10; Length 597;  
Best Local Similarity 100.0%; Pred. No. 1.1;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 15 GCGCCCCCAAGTTCATCCGCAAG 37  
|||||  
Db 148 GCGCCCCCAAGTTCATCCGCAAG 170  
|||||

RESULT 13  
AV925509 621 bp mRNA linear EST 18-JAN-2002  
LOCUS AV925509 K. Sato unpublished cDNA library, cv. Haruna Nijo second  
DEFINITION leaf stage seedling leaves Hordeum vulgare subsp. vulgare cDNA  
clone baad24j08 5', mRNA sequence.  
ACCESSION AV925509  
VERSION AV925509.1 GI:18221288  
KEYWORDS EST.  
SOURCE Hordeum vulgare subsp. vulgare.  
ORGANISM Hordeum vulgare subsp. vulgare  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae  
; Triticeae; Hordeum.  
1 (bases 1 to 621)

AUTHORS Sato, K., Saitoh, D. and Takeda, K.  
TITLE Barley EST sequencing project in NIG and Okayama Univ  
JOURNAL Unpublished (2002)  
COMMENT Contact: Tadasu Shin-i  
Center For Genetic Resource Information  
National Institute of Genetics  
1111 Yata, Mishima, Shizuoka 411-8540, Japan  
Tel: 81-559-81-6856  
Fax: 81-559-81-6855  
Email: tshini@genes.nig.ac.jp.  
Location/Qualifiers

FEATURES  
source  
1. .621  
/organism="Hordeum vulgare subsp. vulgare"  
/cultivar="Haruna NiJo"  
/db\_xref="taxon:112509"  
/clone="basd24j08"  
/clone\_1lb="K. Sato unpublished cDNA library, cv. Haruna  
NiJo second leaf stage seedling leaves"  
/tissue\_type="seedling leaves"  
/dev\_stage="second leaf stage"  
/db\_xref="taxon:112509"  
/clone="basd24j08"  
/clone\_1lb="K. Sato unpublished cDNA library, cv. Haruna  
NiJo second leaf stage seedling leaves"  
/tissue\_type="seedling leaves"  
/dev\_stage="second leaf stage"

BASE COUNT 112 a 180 c 188 g 141 t

ORIGIN  
Query Match 3.7%; Score 23; DB 10; Length 621;  
Best Local Similarity 100.0%; Pred. No. 1.1;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 GCGCCCCCAAGTTCATCCGCAAG 37  
|||||  
Db 200 GCGCCCCCAAGTTCATCCGCAAG 222

RESULT 14  
LOCUS B0739844 655 bp mRNA linear EST 16-JUL-2002  
DEFINITION HB04D12 HB Hordeum vulgare cDNA clone HB04D12 similar to 1)  
Phospholipase D 1 precursor (PLD 1) (Choline phosphatase 1)  
(Phosphatidylcholine-hydrolyzing phospholipase D 1)  
g1|7489548|p1|T03402 probable phospholipase D (EC 3.1.4.4), mRNA  
sequence.  
B0739844  
B0739844.1 GI:21884851  
EST.  
Hordeum vulgare.  
Hordeum vulgare  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;  
Triticeae; Hordeum.  
1 (bases 1 to 655)  
Ozturk, N.Z., Michalowski, C.B., Brazille, S., Borchert, C., Palacio, C.,  
Normand, C., Murphy, C., Kelley, R., Sant, S.A., McLaughlin, H.,  
Friedrichsen, M.A. and Bohner, H.J.  
Monitoring large-scale changes in transcript abundance in drought-  
and salt-stressed barley  
Unpublished (2002)  
Contact: Mark Friedrichsen  
Department of Plant Biology  
University of Illinois  
1201 W. Gregory Dr., Urbana, IL 61801, USA  
Tel: 2172655473  
Email: Bohnerlab@life.uiuc.edu.  
Location/Qualifiers  
1. .655  
/organism="Hordeum vulgare"  
/strain="cv tokak"  
/db\_xref="taxon:4513"  
/clone="HB04D12"  
/clone\_1lb="HB"  
/tissue\_type="Leaf"  
/dev\_stage="3 week old"  
/note="6 and 10 hour drought stress by placing plants on  
moist paper (75% rel. humidity) in light"  
moist paper (75% rel. humidity) in light"  
BASE COUNT 131 a 177 c 205 g 141 t 1 others

ORIGIN  
Query Match 3.7%; Score 23; DB 14; Length 655;  
Best Local Similarity 100.0%; Pred. No. 1.1;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 GCGCCCCCAAGTTCATCCGCAAG 37  
|||||  
Db 162 GCGCCCCCAAGTTCATCCGCAAG 184

RESULT 15  
LOCUS B1954591 663 bp mRNA linear EST 19-OCT-2001  
DEFINITION HVSMEM0018U23f Hordeum vulgare green seedling EST library  
HVCDNA0014 (Blumeria infected) Hordeum vulgare cDNA clone  
HVSMEM0018U23f, mRNA sequence.  
B1954591  
B1954591.1 GI:16300226  
EST.  
Hordeum vulgare.  
Hordeum vulgare  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;  
Triticeae; Hordeum.  
1 (bases 1 to 663)  
Wing, R., Close, T.J., Kleinhofs, A., Wise, R., Chin, A., Begum, D.,  
Frisch, D., Atkins, M., Yu, Y., Henry, D., Palmer, M., Rambo, T., Simmons  
J., Oates, R. and Main, D.  
Development of a genetically and physically anchored EST resource  
for barley genomics: Blumeria infected Morex (compatible) seedling  
cDNA library  
Unpublished (2001)  
Contact: Wing RA  
Clemson University Genomics Institute  
Clemson University  
100 Jordan Hall, Clemson, SC 29634, USA  
Tel: 864 656 7288  
Fax: 864 656 4293  
Email: rwing@clemson.edu  
Total hg bases = 563  
Seq primer: AATTACCTCCTCACTAAGG  
High quality sequence stop: 633.  
Location/Qualifiers  
1. .663  
/organism="Hordeum vulgare"  
/cultivar="Morex"  
/db\_xref="taxon:4513"  
/clone="HVSMEM0018U23f"  
/clone\_1lb="HVSMEM0018U23f"  
HVCDNA0014 (Blumeria infected)"  
/tissue\_type="green seedling leaf"  
/lab\_host="TUC121"  
/note="Vector: pBluescript SK(-); Site 1: EcoRI; Site 2:  
XhoI; Morex (mla) plants were greenhouse grown in the R  
Wise lab at Iowa State University, Ames, IA; 7 day old  
green seedlings were infected with isolate 5874 of  
Blumeria graminis f. sp. hordei, and leaves were harvested  
24, 48 and 72 hr post-inoculation and snap frozen (Wise).  
In the TUC Close lab at the University of California,  
Riverside, total RNA was prepared from each sample pool,  
equal quantities of all three RNA pools were combined,  
poly(A) RNA was purified from the mixture, one primary  
unamplified cDNA library was made, and 1 million pfu were  
in vivo excised to give plusescript SK(-) cDNA phagemids  
(Chin). Phagemids were plated and picked at the Clemson  
University Genomics Institute (CUGI) (Begum, Palmer,  
Frisch, Atkins and Wing). Plasmid DNA preparations, DNA  
sequencing and sequence analysis were performed at CUGI  
(Wing, Yu, Frisch, Henry, Simmons, Oates, Rambo, Main).  
The sequence has been trimmed to remove vector sequence  
and contains a minimum of 100 bases of phred value 20 or  
above. For more details on library preparation and

Fri Apr 4 08:49:34 2003

us-09-856-725-2.oligo.rst

Page 14

sequence analysis see  
<http://www.genome.clemson.edu/projects/barley>. To order  
this clone see <http://www.genome.clemson.edu/orders> Also  
see Close TV, Wing R, Kleinholz A, Wise R (2001)  
Genetically and physically anchored EST resources for  
barley genomics. Barley Genetics Newsletter 31:29-30.  
(<http://wheat.pw.usda.gov/gnpages/bgn/31/cover.html>)"

BASE COUNT 139 a 184 c 190 g 150 t

ORIGIN

Query Match 3.7%; Score 23; DB 13; Length 663;  
Best Local Similarity 100.0%; Pred.No. 1.1;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 GCGCCCCCAAGTTGATCCGCAAG 37  
|||  
Db 91 GCGCCCCCAAGTTGATCCGCAAG 113

Search completed: April 3, 2003, 13:27:47  
Job time : 1525 secs